

PROJECT INFORMATION			SITE NUMBER: 4BV0490A SITE NAME: 4BV0490A-PRIVATE-SILO-SHELDON 1298 MACHIA ROAD SHELDON, VT 05482 FRANKLIN COUNTY DESIGN CONFIGURATION: 67E998E 6160																																											
SCOPE OF WORK: UNMANNED TELECOMMUNICATIONS FACILITY MODIFICATIONS SITE ADDRESS: 1298 MACHIA ROAD SHELDON, VT 05482 LATITUDE: 44.8974° N LONGITUDE: 73.0086° W JURISDICTION: NATIONAL, STATE & LOCAL CODES OR ORDINANCES CURRENT USE: TELECOMMUNICATIONS FACILITY PROPOSED USE: TELECOMMUNICATIONS FACILITY PROJECT TYPE: COLOCATION DESIGN CONFIGURATION: 67E998E 6160																																														
DRAWING INDEX			REV			LOCUS MAP			GENERAL NOTES																																					
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			 DIG SAFE SYSTEM, INC. CALL BEFORE YOU DIG  CALL TOLL FREE: 811 OR 888-DIG-SAFE			UNDERGROUND SERVICE ALERT																																								
 ADVANCED ENGINEERING GROUP, P.C. Civil Engineering - Site Development - Surveying - Telecommunications 179 Swansea Mall Drive Swansea, MA 02777		 smartlink 10 CHURCH CIRCLE ANNAPOLIS, MD 21401 TEL: (410) 263-5465 FAX: (410) 263-5470		SITE NUMBER: 4BV0490A SITE NAME: 4BV0490A-PRIVATE-SILO-SHELDON 1298 MACHIA ROAD SHELDON, VT 05482 FRANKLIN COUNTY		T-MOBILE NORTHEAST LLC 15 COMMERCE WAY, SUITE B NORTON, MA 02766 OFFICE: (508) 286-2700 FAX: (508) 286-2893		<table><tr><td>NO.</td><td>DATE</td><td>REVISIONS</td><td>BY</td><td>CHK</td></tr><tr><td>0</td><td>10/08/24</td><td>ISSUED FOR REVIEW</td><td>MER</td><td>SNA</td></tr><tr><td>1</td><td>10/28/24</td><td>ISSUED FOR CONSTRUCTION</td><td>MER</td><td>SNA</td></tr><tr><td>2</td><td>04/25/25</td><td>REVISED</td><td>MER</td><td>SNA</td></tr><tr><td>3</td><td>05/01/25</td><td>REVISED</td><td>MER</td><td>SNA</td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table>		NO.	DATE	REVISIONS	BY	CHK	0	10/08/24	ISSUED FOR REVIEW	MER	SNA	1	10/28/24	ISSUED FOR CONSTRUCTION	MER	SNA	2	04/25/25	REVISED	MER	SNA	3	05/01/25	REVISED	MER	SNA											TITLE SHEET SHEET NO. T-1	
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GENERAL NOTES

1. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK. THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES.

2. THE ARCHITECT/ENGINEER HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. THE CONTRACTOR BIDDING THE JOB IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.

3. THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE LESEE/LICENSEE REPRESENTATIVE OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK. IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED IN WRITING OTHERWISE.

4. THE SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR AND ALL OTHER MATERIALS AND LABOR DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT AS DESCRIBED HEREIN.

5. THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE SUBMISSION OF BIDS OR PERFORMING WORK TO FAMILIARIZE HIMSELF WITH THE FIELD CONDITIONS AND TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

6. THE CONTRACTOR SHALL OBTAIN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS / CONTRACT DOCUMENTS.

7. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S / VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.

8. THE CONTRACTOR SHALL PROVIDE A FULL SET OF CONSTRUCTION DOCUMENTS AT THE SITE UPDATED WITH THE LATEST REVISIONS AND ADDENDUMS OR CLARIFICATIONS AVAILABLE FOR THE USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.

9. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY CONSTRUCTION CONTROL SURVEYS, ESTABLISHING AND MAINTAINING ALL LINES AND GRADES REQUIRED TO CONSTRUCT ALL IMPROVEMENTS AS SHOWN HEREIN.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY.

12. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, ETCETERA DURING CONSTRUCTION. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.

13. THE CONTRACTOR SHALL KEEP THE GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. PREMISES SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.

14. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.

15. THE CONTRACTOR SHALL NOTIFY THE LESEE/LICENSEE REPRESENTATIVE WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DOCUMENTS. THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONFLICT UNTIL CONFLICT IS RESOLVED BY THE LESEE/LICENSEE REPRESENTATIVE.

16. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.

17. ALL UNDERGROUND UTILITY INFORMATION WAS DETERMINED FROM SURFACE INVESTIGATIONS AND EXISTING PLANS OF RECORD. THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO ANY SITE WORK. CALL THE FOLLOWING FOR ALL PRE-CONSTRUCTION NOTIFICATION 72-HOURS PRIOR TO ANY EXCAVATION ACTIVITY: DIG SAFE SYSTEM (MA, ME, NH, RI, VT): 1-888-344-7233 CALL BEFORE YOU DIG (CT): 1-800-922-4455

18. ALL DIMENSIONS SHOWN THUS ± ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS WHICH EFFECT THE CONTRACTORS WORK. CONTRACTOR TO VERIFY ALL DIMENSIONS WITH PROJECT OWNER PRIOR TO CONSTRUCTION.

19. NORTH ARROW SHOWN ON PLANS REFERS TO APPROXIMATE TRUE NORTH. PRIOR TO THE START OF CONSTRUCTION, ORDERING OR FABRICATING OF ANTENNA MOUNTS, CONTRACTOR SHALL CONSULT WITH PROJECT OWNER'S RF ENGINEER AND FIELD VERIFY ALL ANTENNA SECTOR LOCATIONS AND ANTENNA AZIMUTHS.

20. THE CONTRACTOR AND OR HIS SUB CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY.

21. ANTENNA INSTALLATION SHALL BE CONDUCTED BY FIELD CREWS EXPERIENCED IN THE ASSEMBLY AND ERECTION OF RADIO ANTENNAS, TRANSMISSION LINES AND SUPPORT STRUCTURES.

22. COAXIAL CABLE CONNECTORS AND TRANSMITTER EQUIPMENT SHALL BE PROVIDED BY THE PROJECT OWNER AND IS NOT INCLUDED IN THESE CONSTRUCTION DOCUMENTS. A SCHEDULE OF PROJECT OWNER SUPPLIED MATERIALS IS ATTACHED TO THE BID DOCUMENTS (SEE EXHIBIT 3). ALL OTHER HARDWARE TO BE PROVIDED BY THE CONTRACTOR. CONNECTION HARDWARE SHALL BE STAINLESS STEEL.

23. WHEN "PAINT TO MATCH" IS SPECIFIED FOR ANTENNA CONCEALMENT, PAINT PRODUCT FOR ANTENNA RADOME SHALL BE SHERWIN WILLIAMS COROTHANE II. SURFACE PREPARATION AND APPLICATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND PROJECT OWNER'S GUIDELINE'S.

24. COORDINATION, LAYOUT, AND FURNISHING OF CONDUIT, CABLE AND ALL APPURTENANCES REQUIRED FOR PROPER INSTALLATION OF ELECTRICAL AND TELECOMMUNICATION SERVICE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

25. ALL UTILITY WORK SHALL BE IN ACCORDANCE WITH LOCAL UTILITY COMPANY REQUIREMENTS AND SPECIFICATIONS.

26. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR PIER DRILLING AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW.

27. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF UTILITY COMPANY ENGINEERING. THE AREAS OF THE PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE EQUIPMENT, DRIVEWAY OR LEASE AREA SHALL BE RESTORED TO ORIGINAL CONDITION.

28. GRAVEL, SHALL BE GRADED TO A UNIFORM SLOPE, FERTILIZED, SEEDED AND COVERED WITH MULCH UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN SOIL EROSION AND SEDIMENTATION CONTROLS AT ALL TIMES.

29. DURING CONSTRUCTION. PER FCC MANDATE, ENHANCED EMERGENCY (E911) SERVICE IS REQUIRED TO MEET NATIONWIDE STANDARDS.

30. FOR WIRELESS COMMUNICATIONS SYSTEMS. PROJECT OWNER'S IMPLEMENTATION REQUIRES DEPLOYMENT OF EQUIPMENT AND ANTENNAS GENERALLY DEPICTED ON THIS PLAN, ATTACHED TO OR MOUNTED IN CLOSE PROXIMITY TO THE BTS RADIO CABINETS. PROJECT OWNER RESERVES THE RIGHT TO MAKE REASONABLE MODIFICATIONS TO E911 EQUIPMENT AND LOCATION AS TECHNOLOGY EVOLVES TO MEET REQUIRED SPECIFICATIONS.

31. SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:

AMERICAN CONCRETE INSTITUTE (ACI) 318; BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE;

AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)

MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION;

TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-H, STRUCTURAL STANDARDS FOR STEEL

ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES; REFER TO ELECTRICAL DRAWINGS FOR SPECIFIC ELECTRICAL STANDARDS.

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

APPLICABLE BUILDING CODES:
SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.
BUILDING CODE:

2015 INTERNATIONAL BUILDING CODE
2015 VERMONT FIRE & SAFETY CODE
NFPA 780 2014
LOCAL CODE AS REQUIRED

ELECTRICAL AND GROUNDING NOTES

1. ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.

2. ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED PER SPECIFICATION REQUIREMENTS.

3. THE ELECTRICAL WORK INCLUDES ALL LABOR AND MATERIAL DESCRIBED BY DRAWINGS AND SPECIFICATION INCLUDING INCIDENTAL WORK TO PROVIDE COMPLETE OPERATING AND APPROVED ELECTRICAL SYSTEM.

4. GENERAL CONTRACTOR SHALL PAY FEES FOR PERMITS, AND IS RESPONSIBLE FOR OBTAINING SAID PERMITS AND COORDINATION OF INSPECTIONS.

5. ELECTRICAL AND TELCO WIRING OUTSIDE A BUILDING AND EXPOSED TO WEATHER SHALL BE IN WATER TIGHT GALVANIZED RIGID STEEL CONDUITS OR SCHEDULE 80 PVC (AS PERMITTED BY CODE) AND WHERE REQUIRED IN LIQUID TIGHT FLEXIBLE METAL OR NONMETALLIC CONDUITS.

6. BURIED CONDUIT SHALL BE SCHEDULE 40 PVC.

7. ELECTRICAL WIRING SHALL BE COPPER WITH TYPE XHHW, THWN, OR THHN INSULATION.

8. RUN ELECTRICAL CONDUIT OR CABLE BETWEEN ELECTRICAL UTILITY DEMARCATION POINT AND PROJECT OWNER CELL SITE PPC AS INDICATED ON THIS DRAWING. PROVIDE FULL LENGTH PULL ROPE. COORDINATE INSTALLATION WITH UTILITY COMPANY.

9. RUN TELCO CONDUIT OR CABLE BETWEEN TELEPHONE UTILITY DEMARCATION POINT AND PROJECT OWNER CELL SITE TELCO CABINET AND BTS CABINET AS INDICATED ON THIS DRAWING. PROVIDE FULL LENGTH PULL ROPE AND GREENLEE CONDUIT MEASURING TAPE IN EACH INSTALLED TELCO CONDUIT.

10. WHERE CONDUIT BETWEEN BTS AND PROJECT OWNER CELL SITE PPC AND BETWEEN BTS AND PROJECT OWNER CELL SITE TELCO SERVICE CABINET ARE UNDERGROUND USE PVC, SCHEDULE 40 CONDUIT. ABOVE THE GROUND PORTION OF THESE CONDUITS SHALL BE PVC CONDUIT.

11. ALL EQUIPMENT LOCATED OUTSIDE SHALL HAVE NEMA 3R ENCLOSURE.

12. PPC SUPPLIED BY PROJECT OWNER.

13. GROUNDING SHALL COMPLY WITH NEC ART. 250.

14. GROUND COAXIAL CABLE SHIELDS MINIMUM AT BOTH ENDS USING MANUFACTURERS COAX CABLE GROUNDING KITS SUPPLIED BY PROJECT OWNER.

ADDITIONAL NOTE:
GROUNDING, BONDING AND LIGHTNING PROTECTION SHALL BE DONE IN ACCORDANCE WITH "T-MOBILE BTS SITE GROUNDING STANDARDS".

15. USE #6 COPPER STRANDED WIRE WITH GREEN COLOR INSULATION FOR ABOVE GRADE GROUNDING (UNLESS OTHERWISE SPECIFIED) AND #2 SOLID TINNED BARE COPPER WIRE FOR BELOW GRADE GROUNDING AS INDICATED ON THE DRAWING.

16. ALL GROUND CONNECTIONS TO BE BURNDY HYGROUND COMPRESSION TYPE CONNECTORS OR CADWELD EXOTHERMIC WELD. DO NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT WITH GALVANIZED STEEL.

17. ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NEVER BE BENT AT RIGHT ANGLE. ALWAYS MAKE AT LEAST 12" RADIUS BENDS. #6 WIRE CAN BE BENT AT 6" RADIUS WHEN NECESSARY. BOND ANY METAL OBJECTS WITHIN 6 FEET OF PROJECT OWNER EQUIPMENT OR CABINET TO MASTER GROUND BAR OR GROUNDING RING.

18. CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS.

19. BOND ANTENNA MOUNTING BRACKETS, COAXIAL CABLE GROUND KITS, AND ALNA TO EGB PLACED NEAR THE ANTENNA LOCATION.

20. APPLY OXIDE INHIBITING COMPOUND TO ALL COMPRESSION TYPE GROUND CONNECTIONS.

21. CONTRACTOR SHALL PROVIDE AND INSTALL OMNI DIRECTIONAL ELECTRONIC MARKER SYSTEM (EMS) BALLS OVER EACH GROUND ROD AND BONDING POINT BETWEEN EXISTING TOWER/ (E) MONOPOLE GROUNDING RING AND EQUIPMENT GROUNDING RING.

22. CONTRACTOR SHALL TEST COMPLETED GROUND SYSTEM AND RECORD RESULTS FOR PROJECT CLOSE-OUT DOCUMENTATION. 5 OHMS MAXIMUM RESISTANCE REQUIRED.

23. CONTRACTOR SHALL CONDUCT ANTENNA, COAX, AND LNA RETURN-LOSS AND DISTANCE- TO-FAULT MEASUREMENTS (SWEEP TESTS) AND RECORD RESULTS FOR PROJECT CLOSE OUT.



ABBREVIATIONS

AAV	ALTERNATIVE ACCESS VENDOR	EG	EQUIPMENT GROUND	N.T.S.	NOT TO SCALE
AC	ALTERNATING CURRENT	EGB	EQUIPMENT GROUND BAR	REF	REFERENCE
AGL	ABOVE GRADE LEVEL	EGR	EQUIPMENT GROUND RING	REQ	REQUIRED
ATS	AUTOMATIC TRANSFER SWITCH	(F)	FUTURE	RF	RADIO FREQUENCY
AWG	AMERICAN WIRE GAUGE	GALV.	GALVANIZED	RGS	RIGID GALVANIZED STEEL
AZ	AZIMUTH	G.C.	GENERAL CONTRACTOR	RRH	REMOTE RADIO HEAD
BCW	BARE COPPER WIRE	KW	KILOWATT	TBD	TO BE DETERMINED
BEP	BUILDING ENTRY POINT	MGB	MASTER GROUND BUS	TBR	TO BE REMOVED
BTS	BASE TRANSCEIVER STATION	MIN.	MINIMUM	TBRR	TO BE REMOVED AND REPLACED
CSC	CELL SITE CONTROLLER	(P)	PROPOSED	TYP	TYPICAL
(E)	EXISTING	PPC	POWER PROTECTION CABINET	U/G	UNDERGROUND



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10 CHURCH CIRCLE
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TEL: (410) 263-5465 FAX: (410) 263-5470

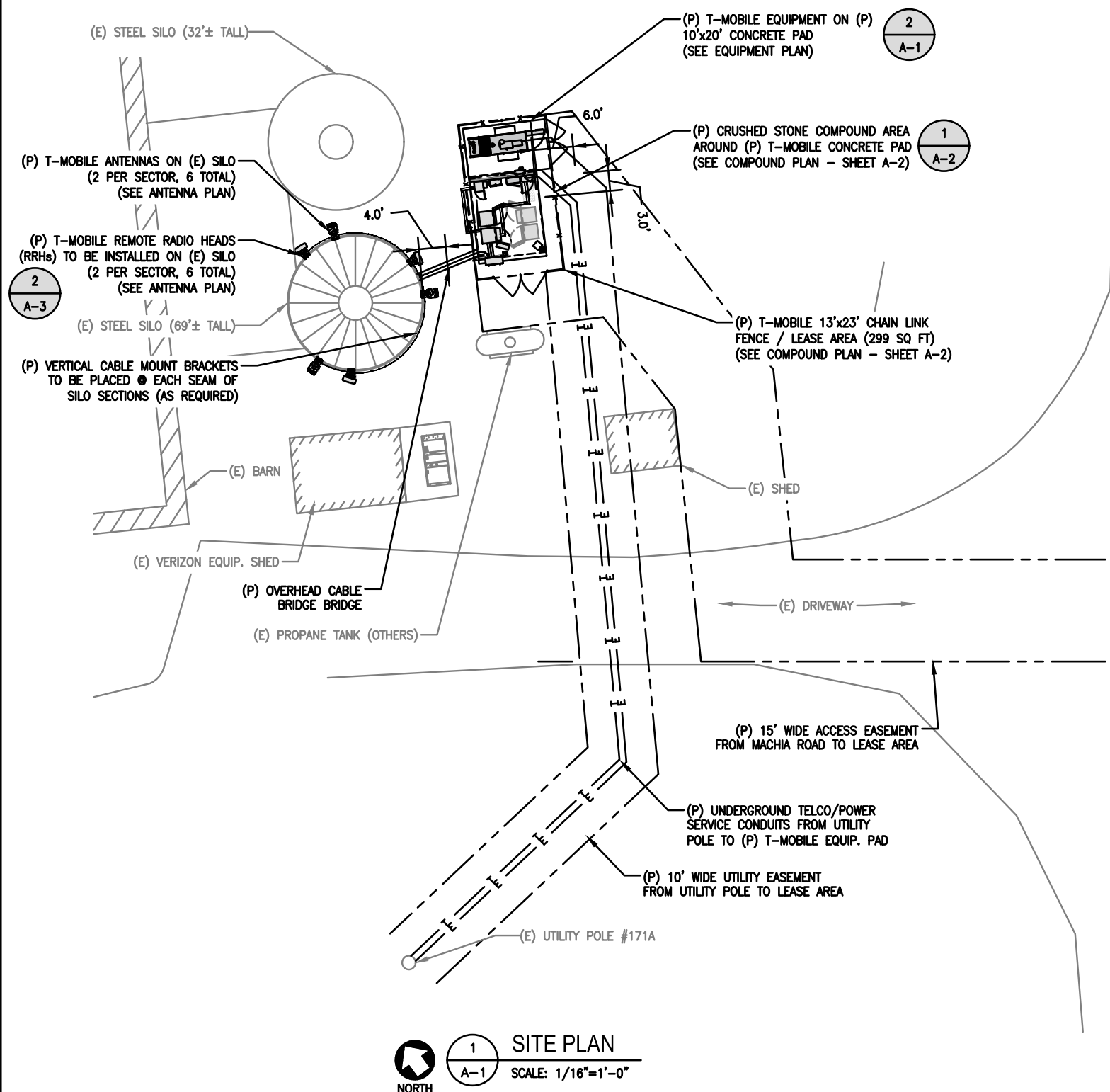
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1298 MACHIA ROAD
SHELDON, VT 05482
FRANKLIN COUNTY

T-MOBILE NORTHEAST LLC
15 COMMERCE WAY, SUITE B
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FAX: (508) 286-2893

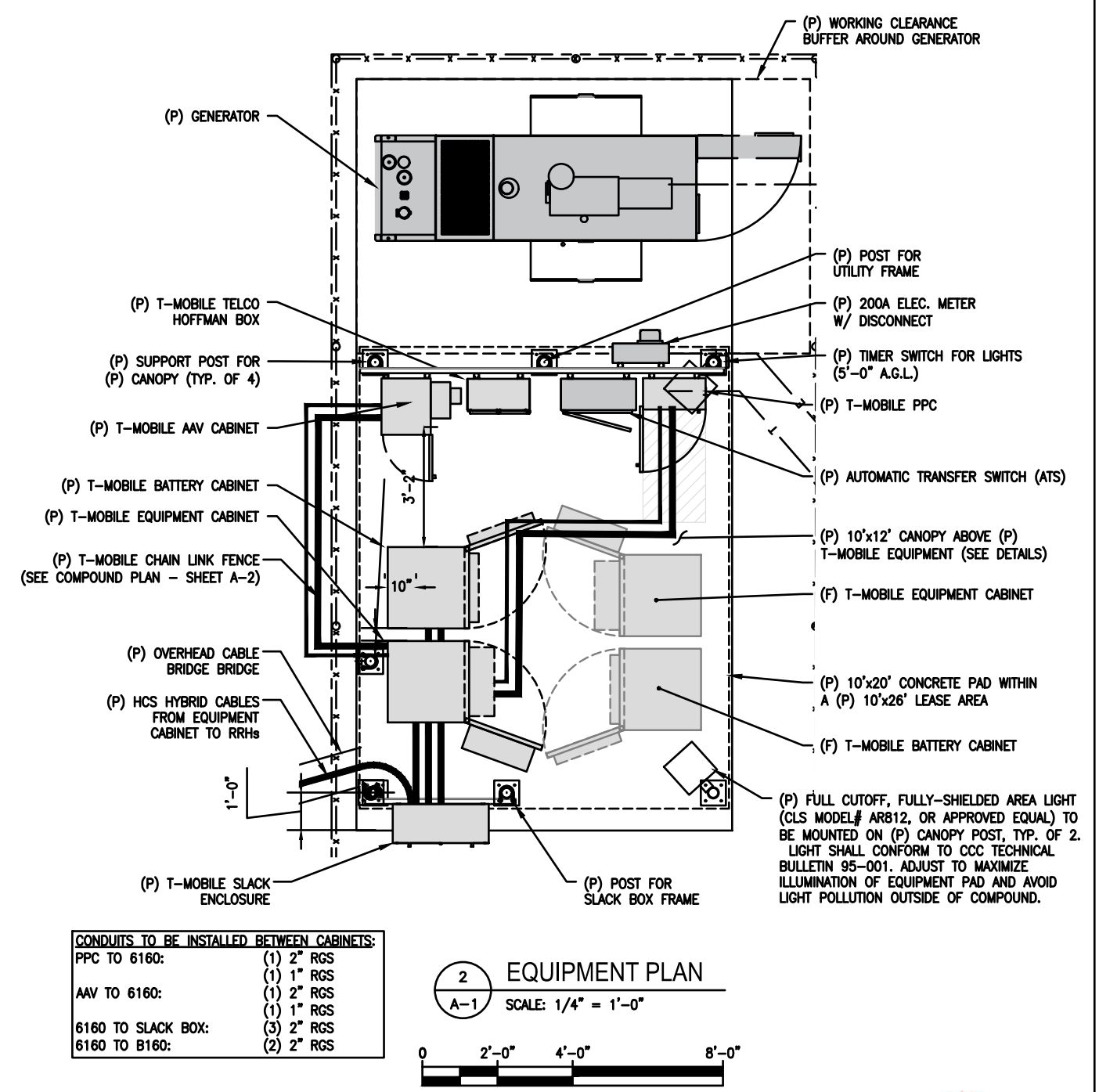
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GENERAL NOTES

SHEET NO. GN-1



MACHIA ROAD

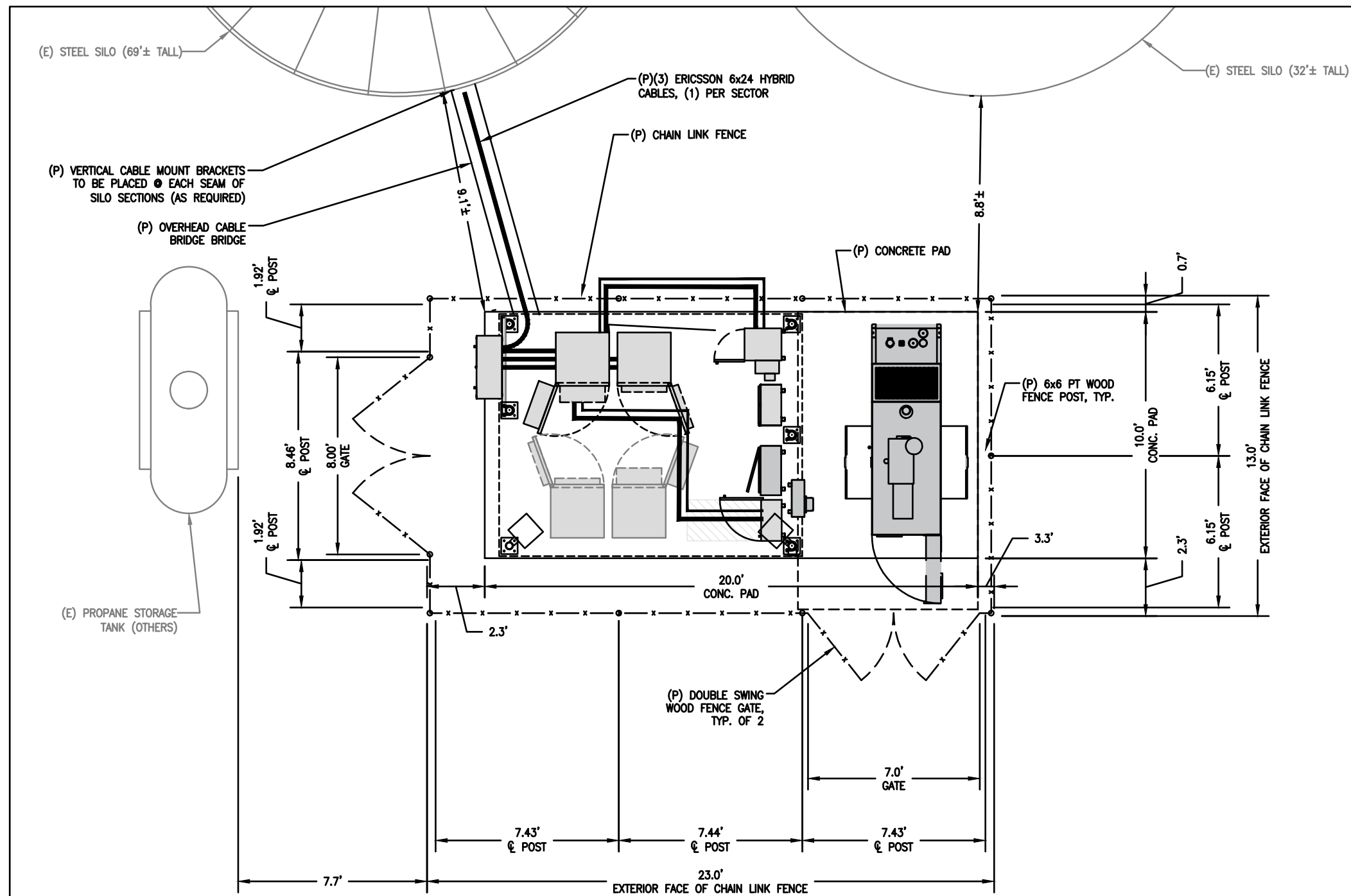


CONDUITS TO BE INSTALLED BETWEEN CABINETS:

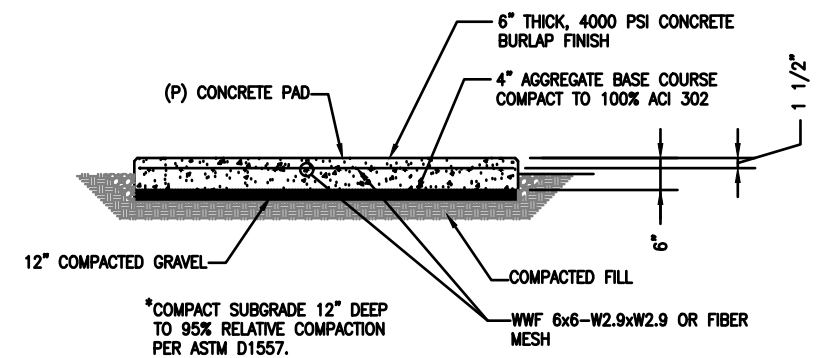
PPC TO 6160:	(1) 2" RGS
	(1) 1" RGS
AAV TO 6160:	(1) 2" RGS
	(1) 1" RGS
6160 TO SLACK BOX:	(3) 2" RGS
6160 TO B160:	(2) 2" RGS



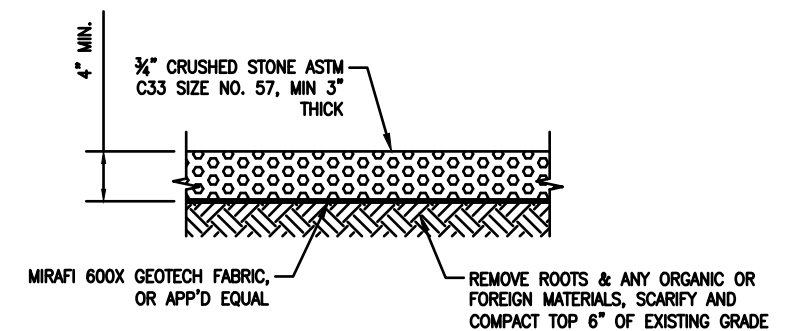
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1 COMPOUND PLAN
A-2 SCALE: 1"=5'-0"



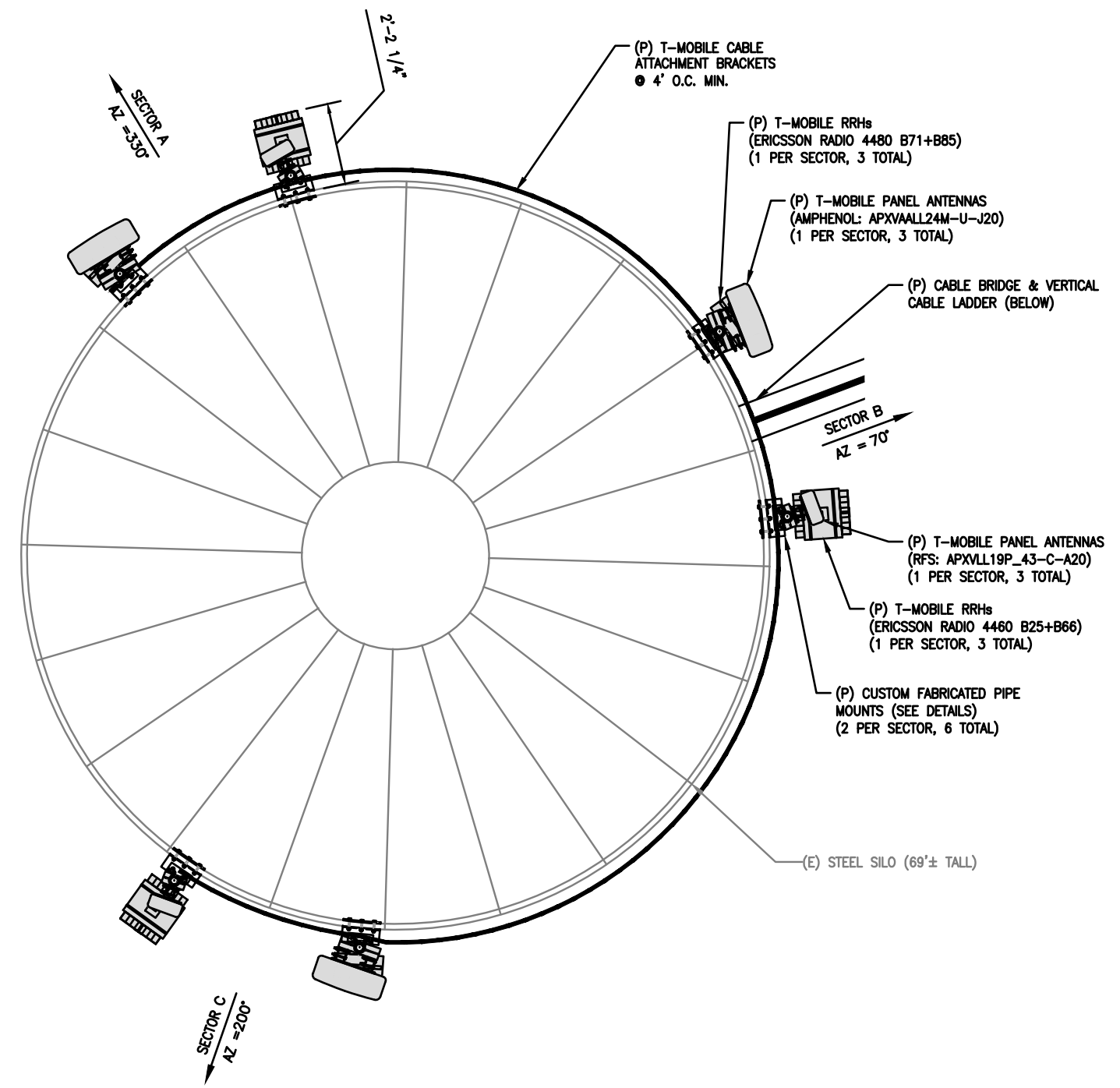
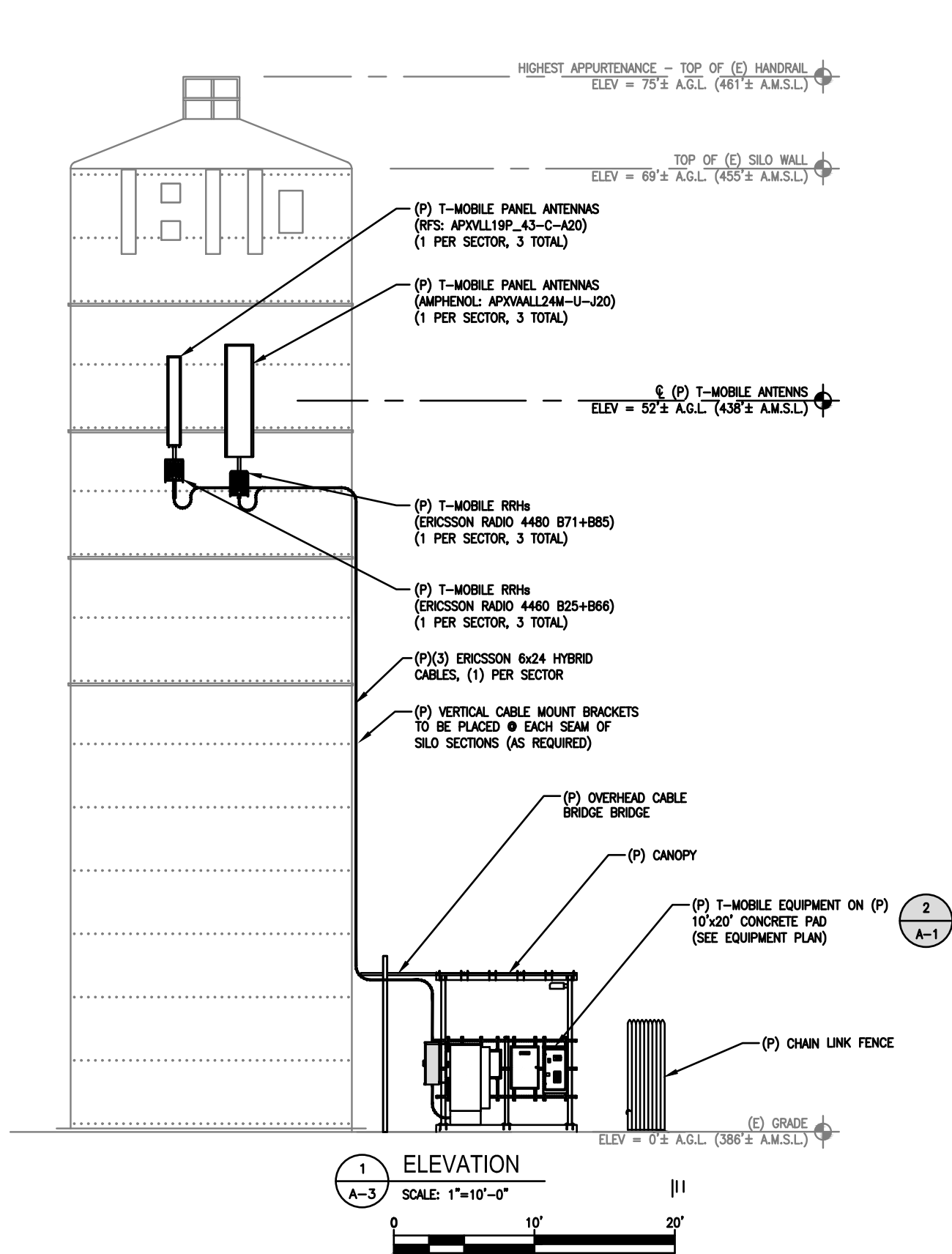
2 CONCRETE PAD DETAIL
A-2 SCALE: N.T.S.



3 STONE COMPOUND DETAIL
A-2 SCALE: N.T.S.



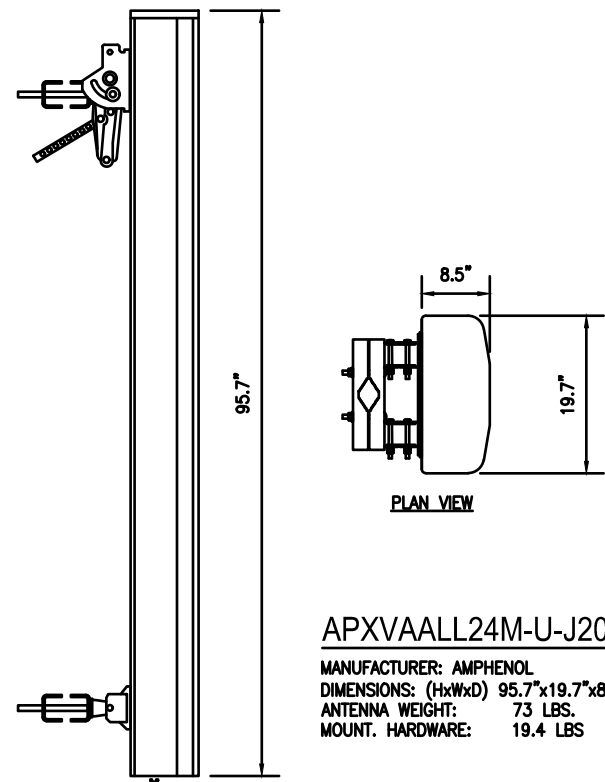
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2 ANTENNA PLAN
A-3 SCALE: 1"=4'-0"



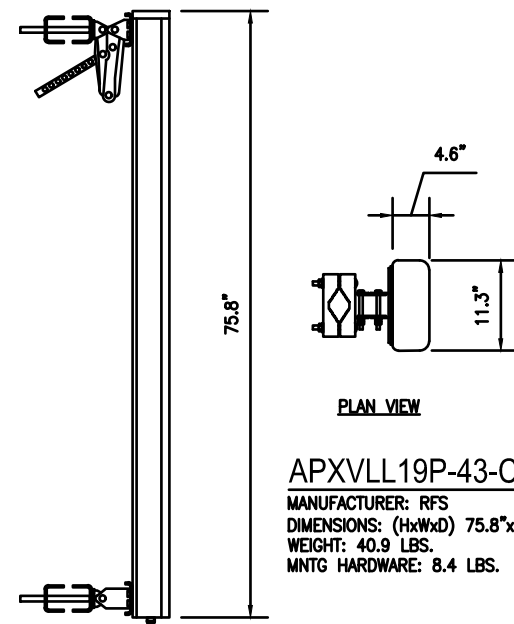
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APXVAALL24M-U-J20
MANUFACTURER: AMPHENOL
DIMENSIONS: (HxWxD) 95.7"x19.7"x8.5"
ANTENNA WEIGHT: 73 LBS.
MOUNT. HARDWARE: 19.4 LBS

ELEVATION VIEW

1 TYP. ANTENNA DETAIL
A-3 SCALE: N.T.S.



APXVLL19P-43-C-A20
MANUFACTURER: RFS
DIMENSIONS: (HxWxD) 75.8"x11.3"x4.6"
WEIGHT: 40.9 LBS.
MNTG. HARDWARE: 8.4 LBS.

ELEVATION VIEW

2 TYP. ANTENNA DETAIL
A-3 SCALE: N.T.S.



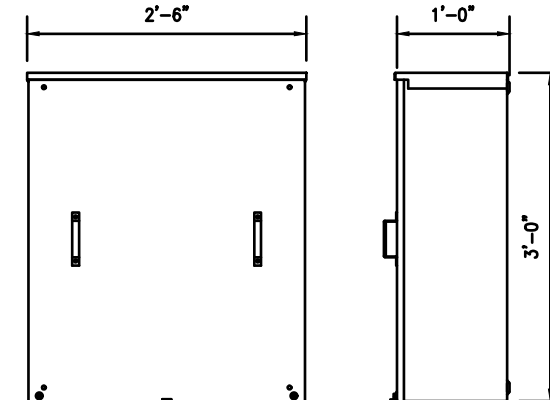
4480 B71+B85
MANUFACTURER: ERICSSON
DIMENSIONS (HxWxD): 21.8"x15.7"x7.5"
WEIGHT: 84 LBS

3 TYP. RRR DETAIL
A-3 SCALE: N.T.S.



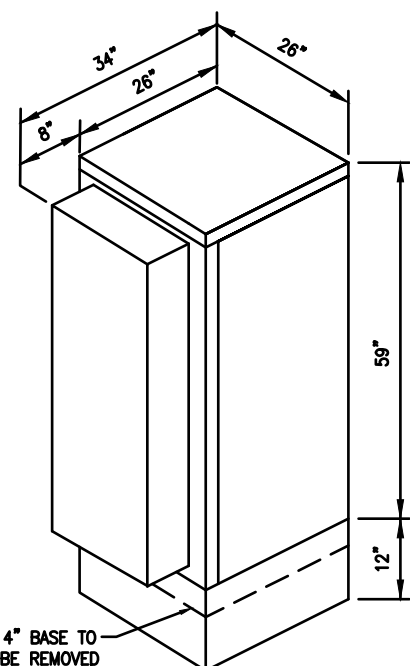
4460 B25+B66
MANUFACTURER: ERICSSON
DIMENSIONS (HxWxD): 19.6"x15.7"x12.1"
WEIGHT: 109 LBS

4 TYP. RRR DETAIL
A-3 SCALE: N.T.S.



FIBER SLACK ENCLOSURE
MANUFACTURER: HOFFMAN*
MODEL: A-36R3012
MATERIAL: STEEL
DIMENSIONS (HxWxD): 36.0"x30.0"x12.0"
PROTECTION RATING: NEMA TYPE 3; N
(* OR AN APPROVED EQUAL)

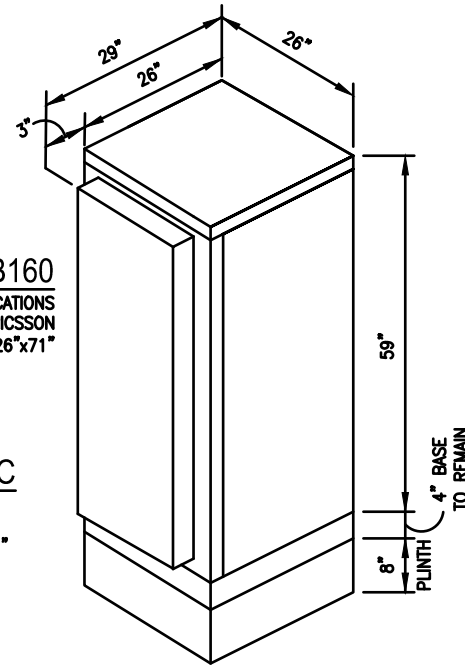
5 FIBER SLACK ENCLOSURE
A-4 SCALE: N.T.S.



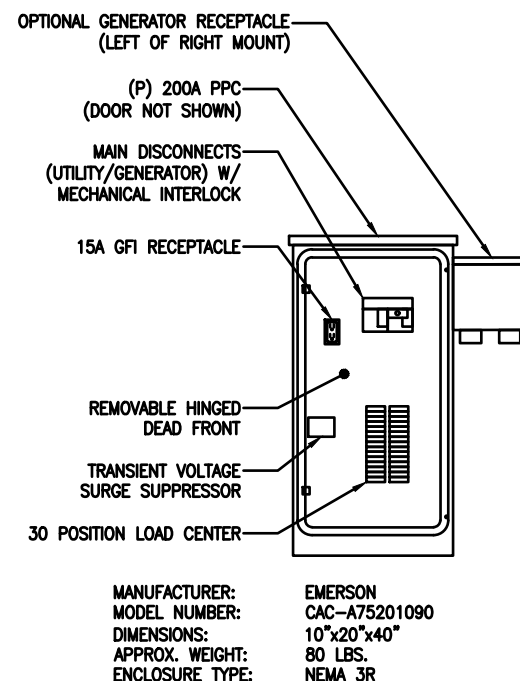
ENCLOSURE B160
*PRELIMINARY SPECIFICATIONS
MANUFACTURER: ERICSSON
DIMENSIONS: 29"x26"x71"

ENCLOSURE 6160 AC
*PRELIMINARY SPECIFICATIONS
MANUFACTURER: ERICSSON
DIMENSIONS: 32"x26"x71"
WEIGHT W/O EQUIPMENT: 320 LBS.
WEIGHT W/ EQUIPMENT: 605 LBS.

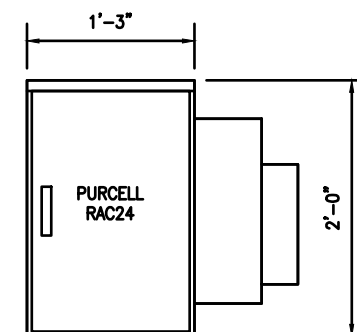
6 EQUIPMENT CABINET
A-3 SCALE: N.T.S.



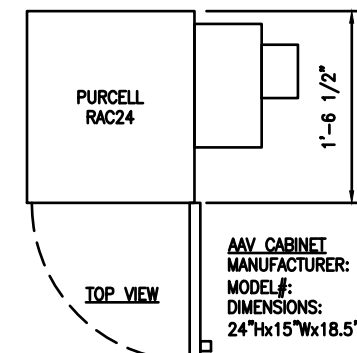
7 BATTERY CABINET
A-3 SCALE: N.T.S.



8 PPC DETAIL
A-4 SCALE: N.T.S.



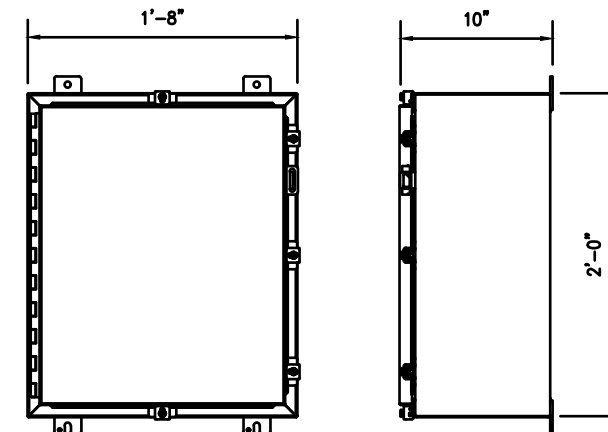
FRONT VIEW



TOP VIEW

AAV CABINET
MANUFACTURER: PURCELL
MODEL #: RAC24
DIMENSIONS: 24"Hx15"Wx18.5"D

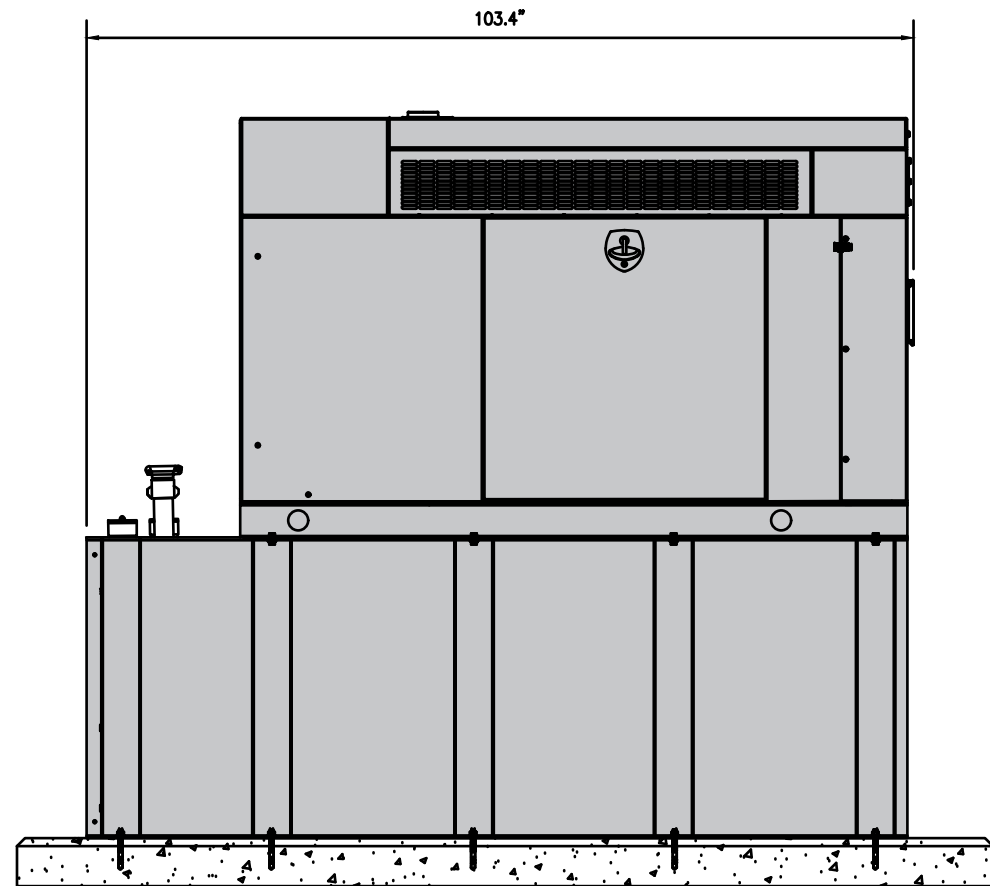
9 AAV CABINET DETAIL
A-4 SCALE: N.T.S.



TELCO ENCLOSURE
MODEL: A24H2010ALLP
MANUFACTURER: HOFFMAN*
MATERIAL: ALUMINUM
DIMENSIONS (HxWxD): 24.0"x20.0"x10.0"
PROTECTION RATING: NEMA TYPE 12; NEMA TYPE 13; NEMA TYPE 4; NEMA TYPE 4X; IP66
(* OR AN APPROVED EQUAL)

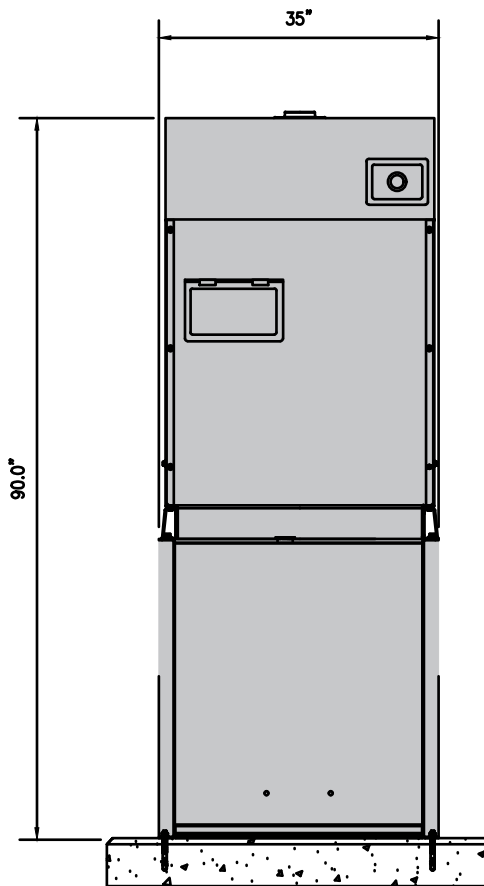
10 TELCO ENCLOSURE
A-4 SCALE: N.T.S.





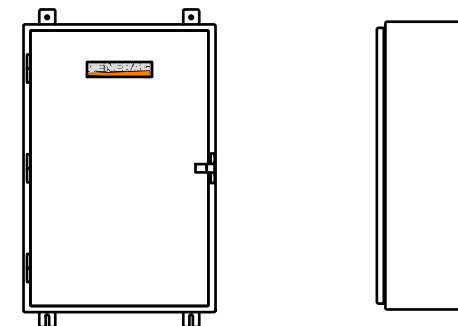
48KW GENERAC RD048 AC DIESEL GENERATOR
 MODEL # 7194-0 (EXTERNAL TANK)
 MANUFACTURER: GENERAC POWER SYSTEMS, INC.*
 DIMENSIONS (HxWxD): 90.0"x35"x103.4"
 WEIGHT: 2954 LBS.
 (* OR AN APPROVED EQUAL)

SIDE ELEVATION



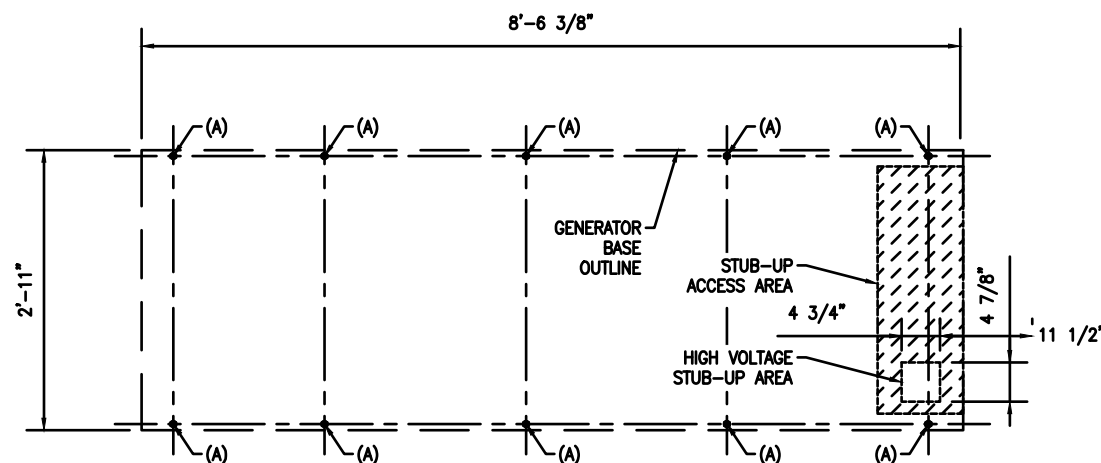
FRONT

1 GENERATOR DETAIL
 A-5 SCALE: N.T.S.



GENERAC 100-400AMPS, 600VAC AUTOMATIC TRANSFER SWITCH
 MODEL # GTS CONTROL SYSTEMS
 MANUFACTURER: GENERAC POWER SYSTEMS, INC.*
 DIMENSIONS (HXWxD): 36"x24"x12.7"
 WEIGHT: 185 LBS.
 AMPS: 150-200
 VOLTAGE: 120/240, 1φ
 LOAD TRANSITION TYPE (AUTOMATIC) OPEN TRANSITION
 ENCLOSURE TYPE: NEMA 1
 UL RATING: UL 1008 AND CSA STANDARDS
 WITHSTAND RATING (AMPS): 25,000
 LUG RANGE: 400MCM - 4 AWG
 (* OR AN APPROVED EQUAL)

2 AUTOMATIC TRANSFER SWITCH DETAIL
 A-3 SCALE: N.T.S.



INSTALLATION NOTE:
 REFER TO MANUFACTURE'S INSTALLATION
 DIAGRAM FOR MOUNTING HOLE LAYOUT
 AND STUB-UP CONNECTIONS

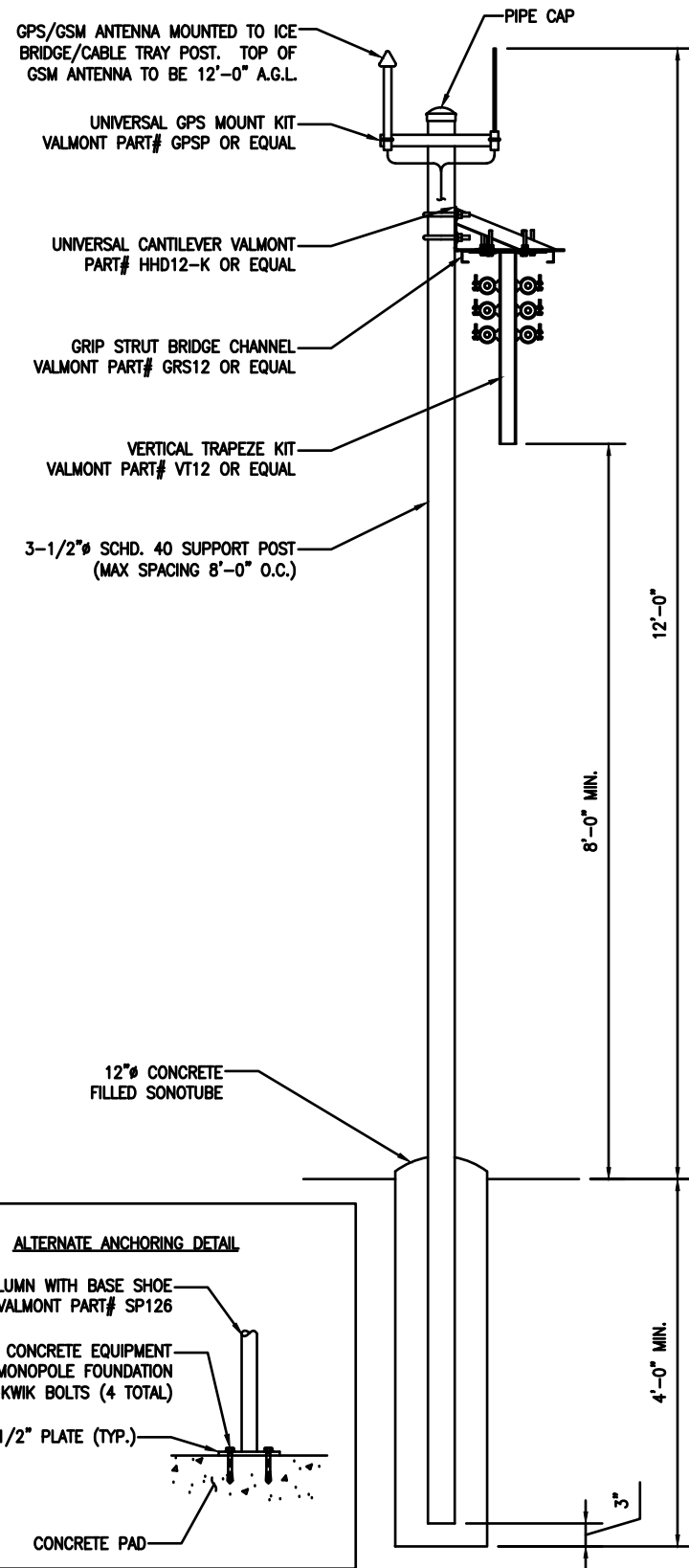
GENERATOR TANK MOUNTING NOTES:
 EXISTING OR PROPOSED CONCRETE PAD
 INSTALL (A), GENERATOR TO BE
 FASTENED TO CONCRETE PAD WITH HILTI
 EXPANSION ANCHORS PART#
 KB-TZ_1/2"x5-1/2"__SS304 OR AN
 APPROVED SUBSTITUTE (4" MIN. EMBED.)

3 GENERATOR ANCHORING DETAIL, TYP.
 A-5 SCALE: N.T.S.

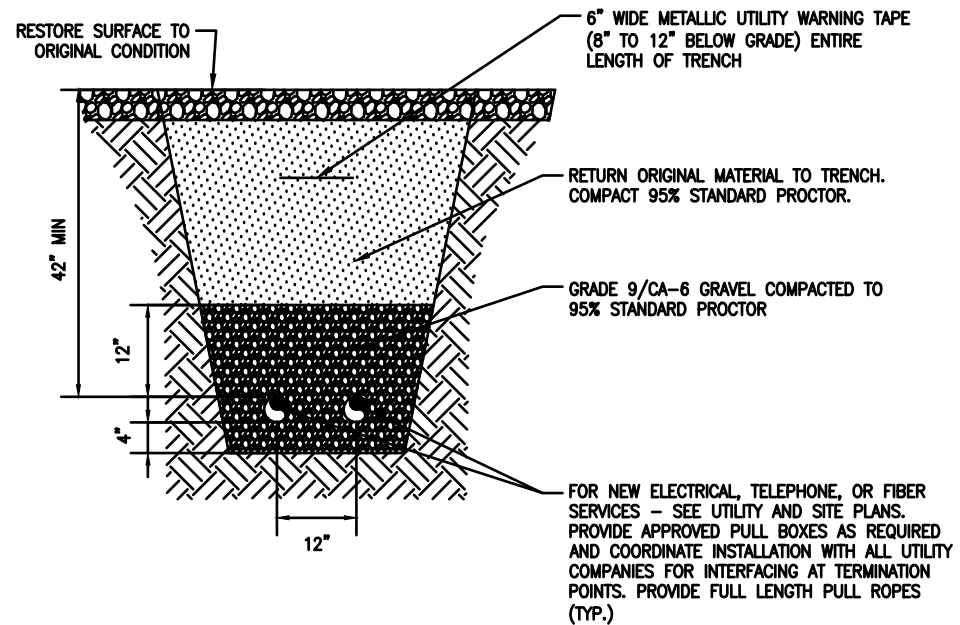


ELECTRICAL NOTES:
 1. ALL WORK NEEDS TO BE PERFORMED BY
 LICENSED ELECTRICIAN ADHERING TO THE NEC
 AND LOCAL CODE REQUIREMENTS.
 2. GROUNDING, BONDING AND LIGHTNING PROTECTION
 SHALL BE DONE IN ACCORDANCE WITH "T-MOBILE
 BTS SITE GROUNDING STANDARDS".

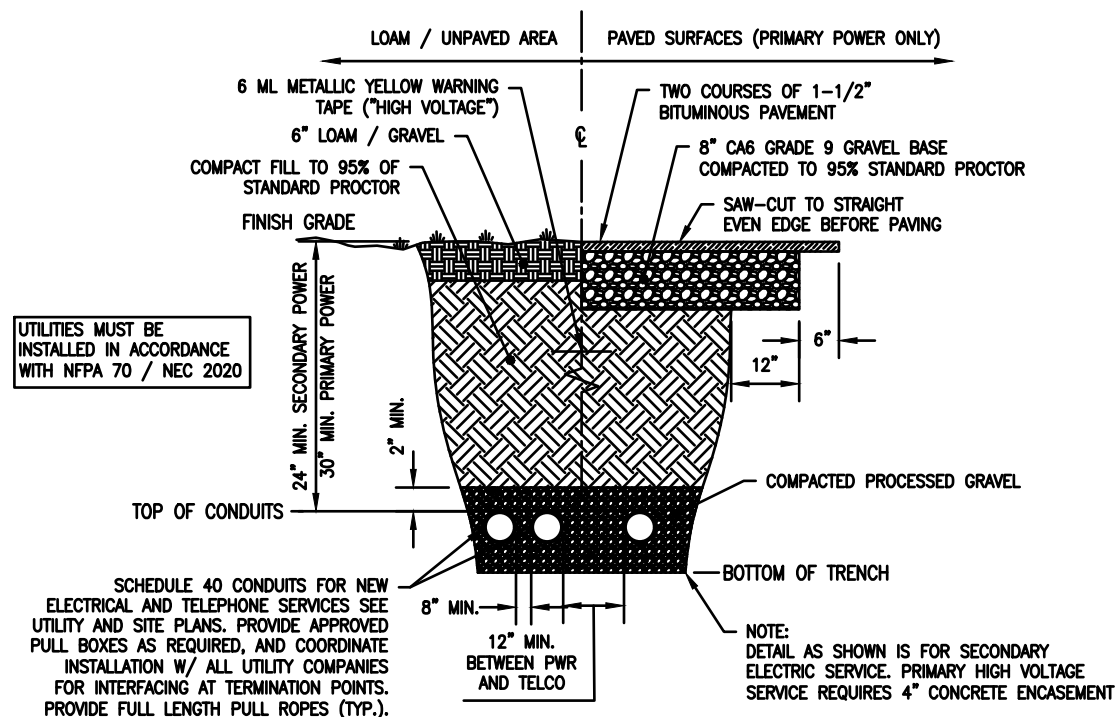
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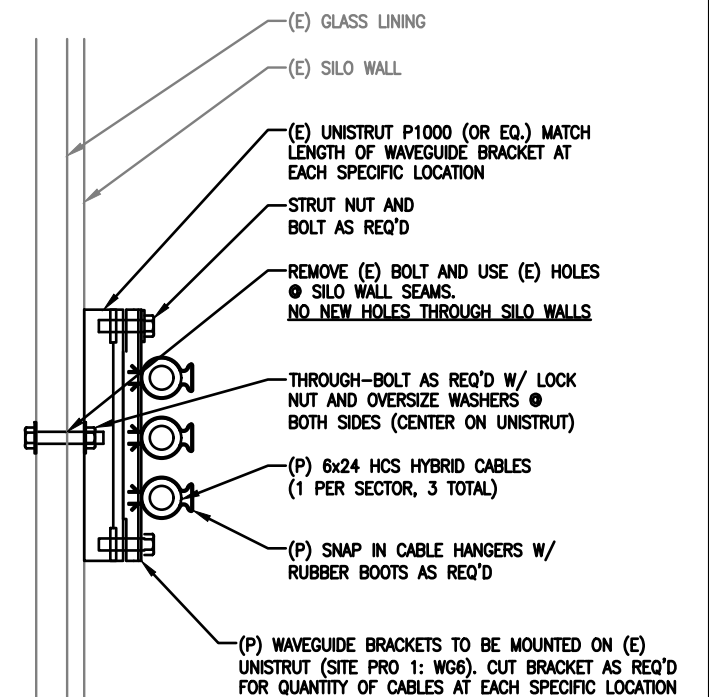
1 ICE BRIDGE DETAIL
A-6 SCALE: 1/2" = 1'-0"



2 TRENCH DETAIL AT ACCESS CROSSING
A-6 SCALE: N.T.S.



3 TRENCH DETAIL
A-6 SCALE: N.T.S.



SAME DETAIL @ HORIZONTAL AND VERTICAL CABLES

4 CABLE MOUNT DETAIL
A-6 SCALE: 3" = 1'-0"

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RF EQUIPMENT SCHEDULE																								
SITE ID: 4BV0490A				PROJECT TYPE: COLOCATION				RAN TEMPLATE: 67E998E 6160				RF SCHEDULE BASED ON PROVIDED T-MOBILE RFDS DATED: September 17, 2024											REVISION: 1	
GENERAL		EXISTING										PROPOSED												
SECTOR	POS.	MODEL	AZ (°)	ELEV (FT)	MODEL	AZ (°)	ELEV (FT)	ACTIVE TECHNOLOGY				E-TILT	M-TILT	RADIO (1)	RADIO (2)	TMA (1)	TMA (2)	DIPLEXER	JUMPER CABLES			Feeder Cables QTY./TYPE/LENGTH		
																			COAX/FIBER	QUANTITY	LENGTH			
ALPHA	1	-	-	-	APXVAALL24M-U-J20	330	52	N600	L600	-	-	-	0	0	4480 B71+B85	-	-	-	-	COAX/FIBER	8/4	10'	(3) 6/24 HCS (30m)	
	2	-	-	-	APXVLL19P-43-C-A20	330	52	L2100	L1900	N1900	-	-	0	0	4460 B25+B66	-	-	-	-	-	-			
	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
BETA	1	-	-	-	APXVAALL24M-U-J20	70	52	N600	L600	-	-	-	0	0	4480 B71+B85	-	-	-	-	COAX	8/4	10'		
	2	-	-	-	APXVLL19P-43-C-A20	70	52	L2100	L1900	N1900	-	-	0	0	4460 B25+B66	-	-	-	-	-	-	-		
	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
GAMMA	1	-	-	-	APXVAALL24M-U-J20	200	52	N600	L600	-	-	-	0	0	4480 B71+B85	-	-	-	-	COAX	8/4	10'		
	2	-	-	-	APXVLL19P-43-C-A20	200	52	L2100	L1900	N1900	-	-	0	0	4460 B25+B66	-	-	-	-	-	-	-		
	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			

PROJECT INFORMATION & DIMENSIONS				
DIMENSION	REQUIRED	EXISTING	PROPOSED	NET INCREASE
SURFACE AREA OF THE FACES OF THE EQUIPMENT ON SUPPORT STRUCTURE	< 75 SQ.FT.	NONE <u>EXISTING EQUIPMENT TOTAL</u> = 0 SQ.FT	ANTENNA (3) 95.7"x19.7" = 39.28 SQ.FT. ANTENNA (3) 75.8"x11.3" = 17.84 SQ.FT. RRH (3) 21.8"x15.7" = 7.13 SQ.FT. RRH (3) 19.6"x15.7" = 6.41 SQ.FT. <u>PROPOSED EQUIPMENT TOTAL</u> = 70.66 SQ.FT	<u>CHANGE TO THE FACIAL SURFACE AREA:</u> EXISTING 00.0 SQ.FT PROPOSED <u>70.66 SQ.FT</u> DIFFERENCE +70.66 SQ.FT
MAXIMUM VERTICAL EXTENSION FROM SUPPORT STRUCTURE	< 10'-0"	0'-0"	0'-0"	0"
MAXIMUM HORIZONTAL EXTENSION FROM SUPPORT STRUCTURE	< 10'-0"	0'-0"	2'-2'	+2'-2"
IMPERVIOUS SURFACE AREA BEING ADDED TO SITE	< 300 SQ.FT.	0 SQ.FT.	200 SQ.FT.	200 SQ.FT.
(3) 95.7"x19.7" & (3) 75.8"x11.3" PANEL ANTENNAS TO BE INSTALLED				

EQUIPMENT SCHEDULE	
<u>CURRENT EQUIPMENT</u> NONE	
<u>EQUIPMENT TO BE INSTALLED</u> 3 PANEL ANTENNAS: AMPHENOL APXVAALL24M-U-J20 3 PANEL ANTENNAS: RFS APXVLL19P-43-C-A20 3 RRH: ERICSSON RADIO 4460 B25+B66 3 RRH: ERICSSON RADIO 4480 B71+B85 3 6x24 DC/FIBER CABLES 1 EQUIPMENT ENCLOSURE: ERICSSON 6160 AC 1 BATTERY ENCLOSURE: ERICSSON B160 1 PPC: EMERSON CAC-A75201090 1 AAV: PURCELL RAC24 1 HYBRID SLACK ENCLOSURE: HOFFMAN A-36R3012 1 TELCO SLACK ENCLOSURE: HOFFMAN A24H2010ALLP 1 AUTOMATIC TRANSFER SWITCH 1 GENERATOR	

RF CONFIG 605D988E OUTDOOR
<u>SCOPE OF WORK</u> 1. CONSTRUCT CONCRETE PAD, COMPOUND AND FENCE 2. INSTALL UTILITIES IN UNDERGROUND CONDUITS 3. INSTALL ANTENNA MOUNTS ON (E) SILO 4. INSTALL (6) NEW PANEL ANTENNAS, (2) PER SECTOR, INSTALL (3) NEW HYBRID CABLES (1) PER SECTOR 5. INSTALL (6) NEW REMOTE RADIO HEADS (2) PER SECTOR, 6. INSTALL (1) EQUIPMENT CABINET & (1) BATTERY CABINET 7. INSTALL GENERATOR & ATS 8. INSTALL UTILITY CABINETS PER PLAN 9. INSTALL HYBRID SLACK & FIBER SLACK ENCLOSURES

SITE AREA CALCULATION

TOTAL LIMIT OF WORK AREA (L.O.W.)	1567± S.F.
PERMANENT DISTURBED AREA W/IN L.O.W.	299± S.F.
TEMPORARY DISTURBED AREA W/IN L.O.W.	1268± S.F.
EXISTING AREA WITHIN L.O.W.	1567± S.F.
PREVIOUSLY CLEARED/DISTURBED	
PROPOSED NEW DISTURBED AREA W/IN L.O.W.	0 S.F.



ADVANCED
ENGINEERING GROUP, P.C.
Civil Engineering - Site Development - Surveying - Telecommunications
179 Swansea Mall Drive Phone: (508) 343-1414
Swansea, MA 02777 Fax: (401) 633-6354

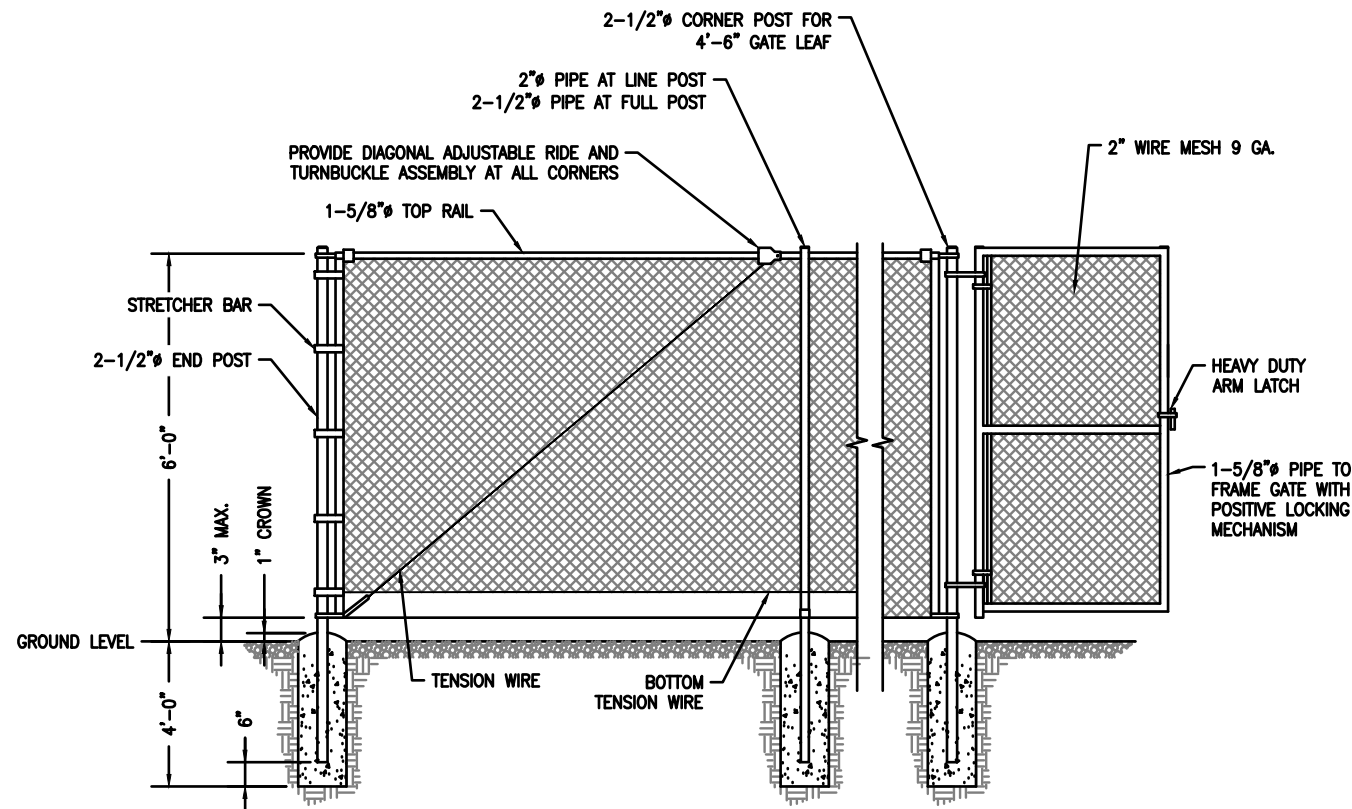
smartlink
10 CHURCH CIRCLE
ANNAPOLIS, MD 21401
TEL: (410) 263-5465 FAX: (410) 263-5470

SITE NUMBER: 4BV0490A
SITE NAME: 4BV0490A-PRIVATE-SILO-SHELDON
1298 MACHIA ROAD
SHELDON, VT 05482
FRANKLIN COUNTY

T-MOBILE NORTHEAST LLC
15 COMMERCE WAY, SUITE B
NORTON, MA 02766
OFFICE: (508) 286-2700
FAX: (508) 286-2893

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TABLES AND SCHEDULES



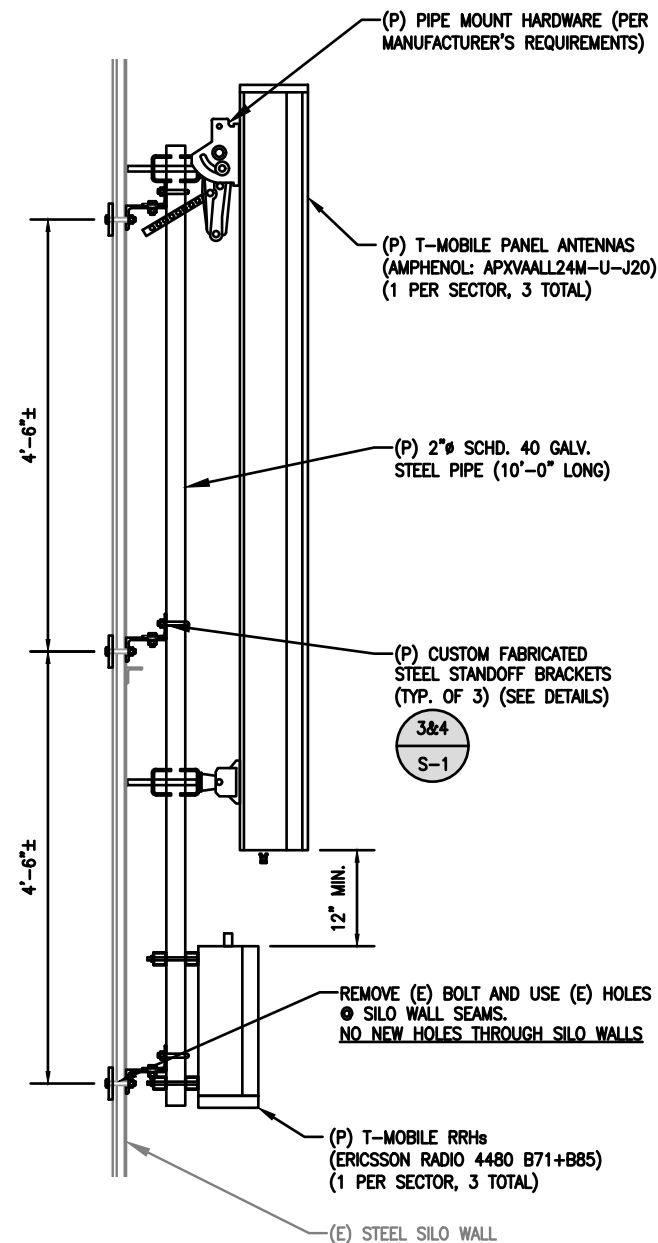
FENCE NOTES:

1. INSTALL FENCING PER ASTM F-567, SWING GATE PER ASTM F-900.
2. ALL END POSTS, LINE POSTS, PULL POSTS, POSTS FOR GATE LEAF, PIPES FOR GATE FRAME AND TOP RAILS SHALL BE SCHEDULE 40 PIPE PER ASTM F-1083.
3. FABRIC SHALL BE 12 GA. CORE WIRE SIZE 2" MESH CONFORMING TO ASTM A-392.
4. TENSION WIRE SHALL BE 7 GA. GALV. STEEL.
5. TIE WIRE SHALL BE 11 GA. GALV. STEEL (MIN.) AT POSTS AND RAILS. A SINGLE WRAP FABRIC TIE AT TENSION WIRE BY HOG RINGS SPACED MAX. OF 24" INTERVALS
6. BARBED WIRE SHALL BE DOUBLE STRAND 12 1/2" O.D. TWISTED WIRE TO MATCH W/FABRIC 14 GA., 4 PT. BARBS SPACES AT APPROXIMATELY 5" O.C.
7. COMPLY WITH LOCAL ORDINANCES OF BARBED WIRE PERMIT REQUIREMENTS, IF REQUIRED.
8. STEEL FENCE SYSTEM SHALL INCLUDE THE FENCE POSTS, FABRIC, GATE SYSTEM AND ALL NECESSARY ERECTION ACCESSORIES, FITTINGS AND FASTENINGS. ALL FENCE SYSTEM COMPONENTS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153. GATES SHALL BE SWING GATES WITH 4'-6" LEAFS. REFER TO TYPICAL FENCE DETAIL FOR ADDITIONAL INFORMATION. INSTALL FENCE AFTER CONCRETE HAS ATTAINED 75% OF 28 DAY DESIGN STRENGTH.

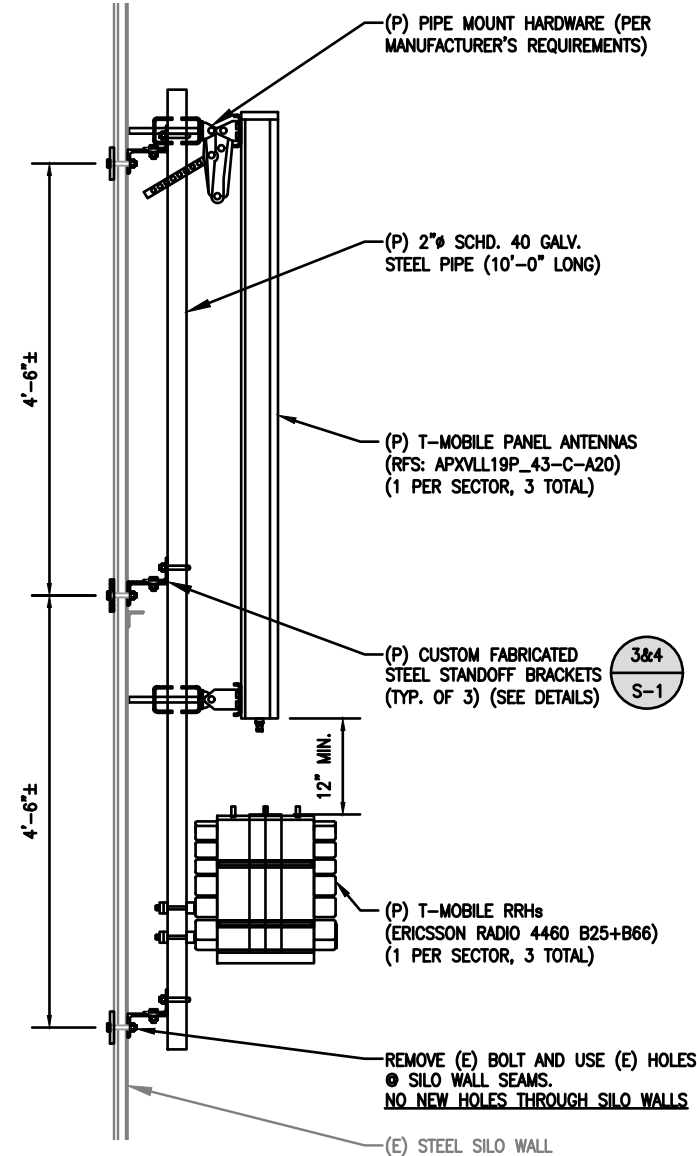
1 CHAIN-LINK FENCE DETAIL
A-4 SCALE: N.T.S.



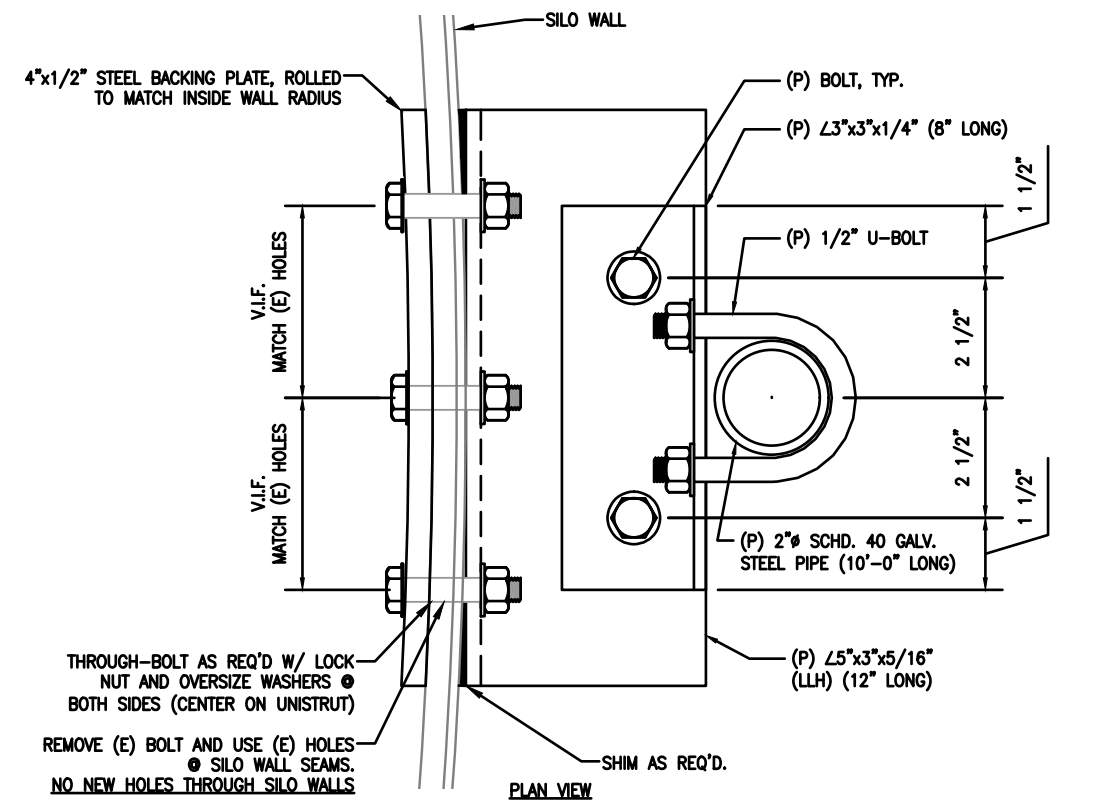
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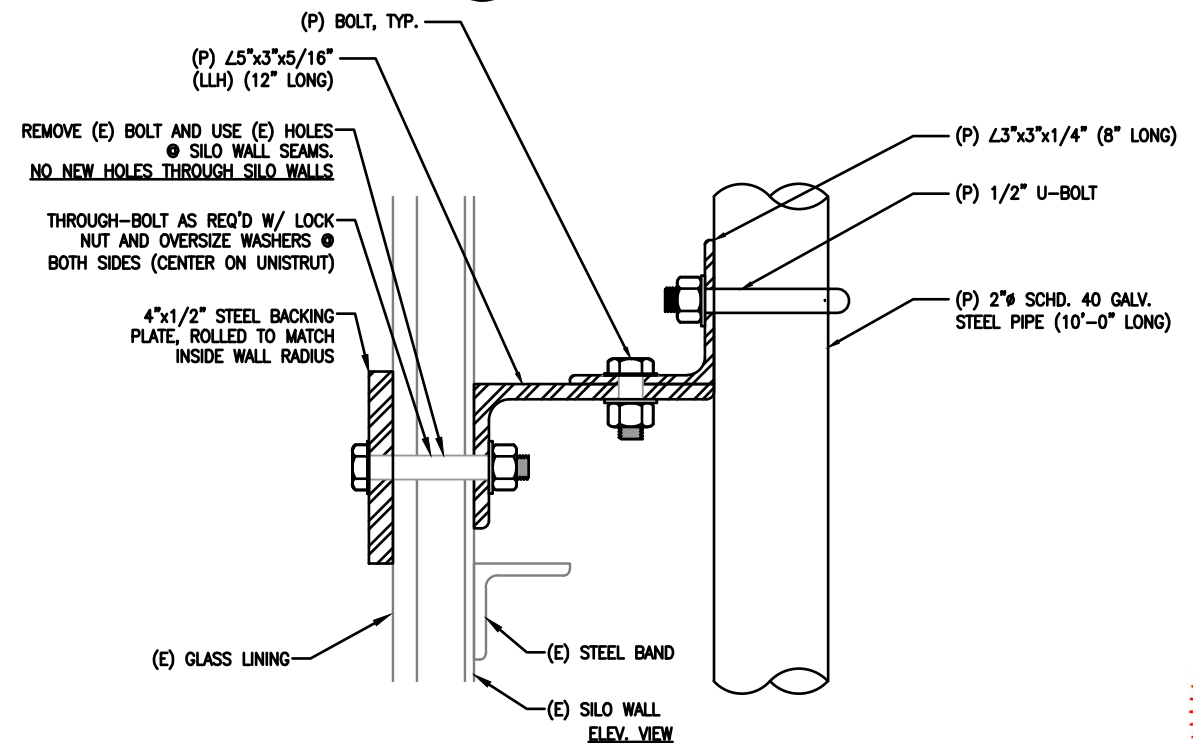
1 ANTENNA MOUNT DETAIL
S-1 SCALE: 1/2" = 1'-0"



2 ANTENNA MOUNT DETAIL
S-1 SCALE: 1/2" = 1'-0"



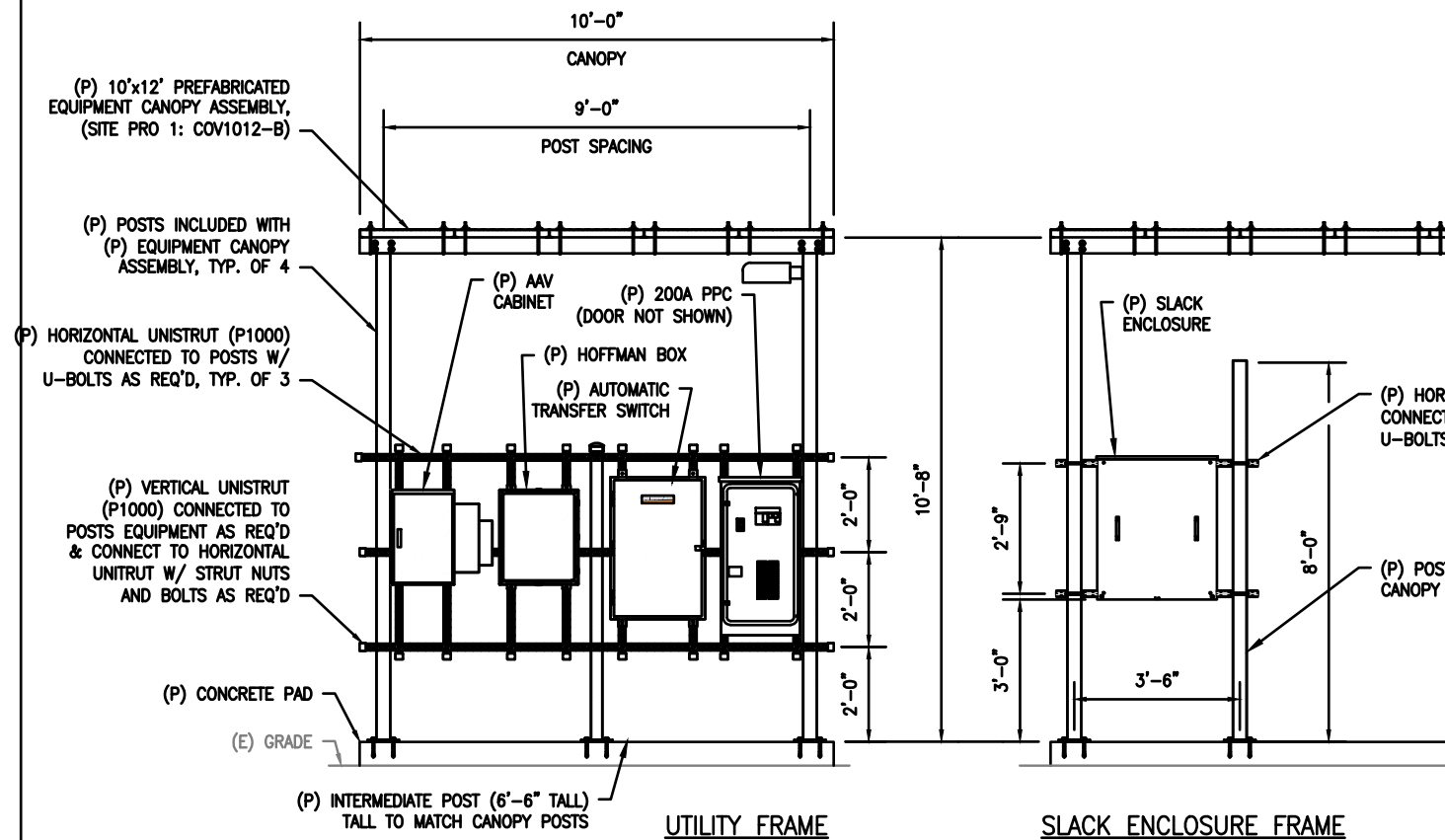
3 BRACKET DETAIL
S-1 SCALE: 3" = 1'-0"



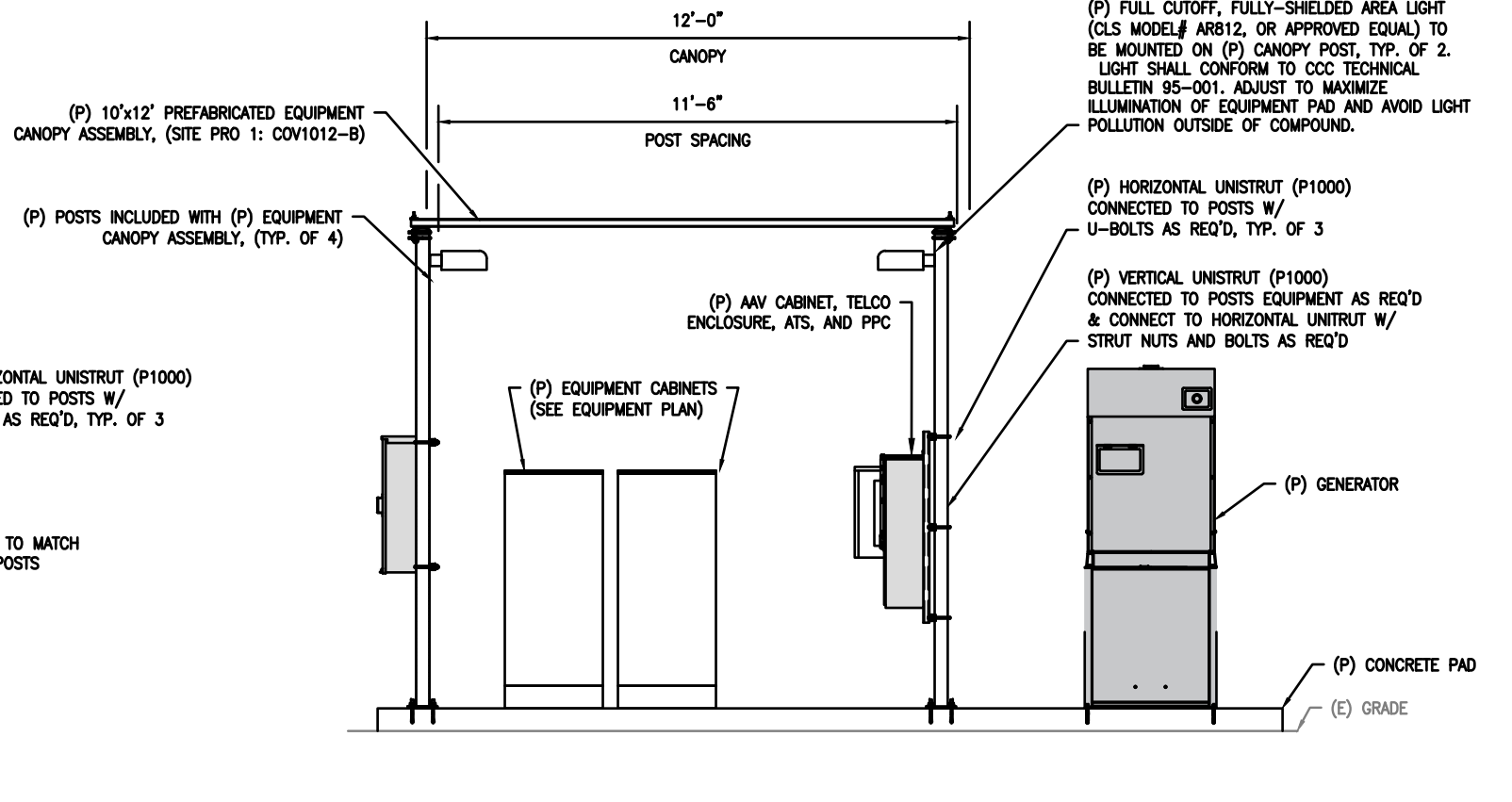
4 BRACKET DETAIL
S-1 SCALE: 3" = 1'-0"



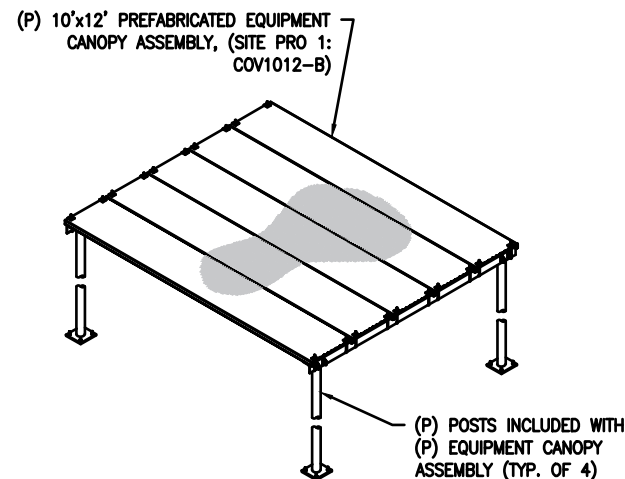
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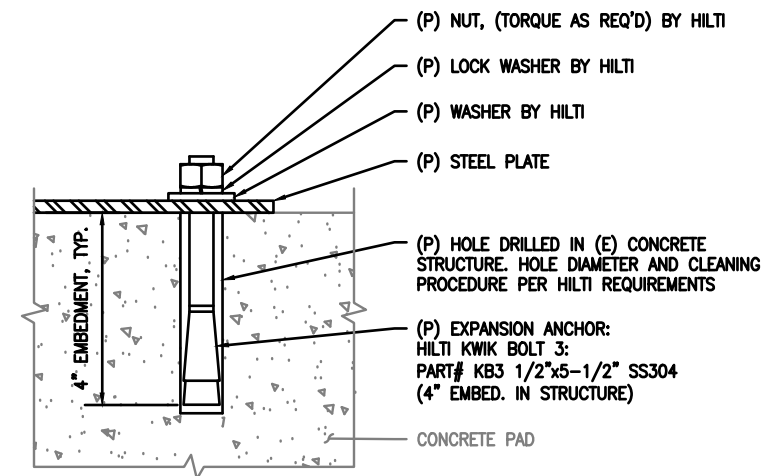
1 CANOPY ELEVATION
S-2 SCALE: 1/4" = 1'-0"



2 CANOPY ELEVATION
S-2 SCALE: 1/4" = 1'-0"



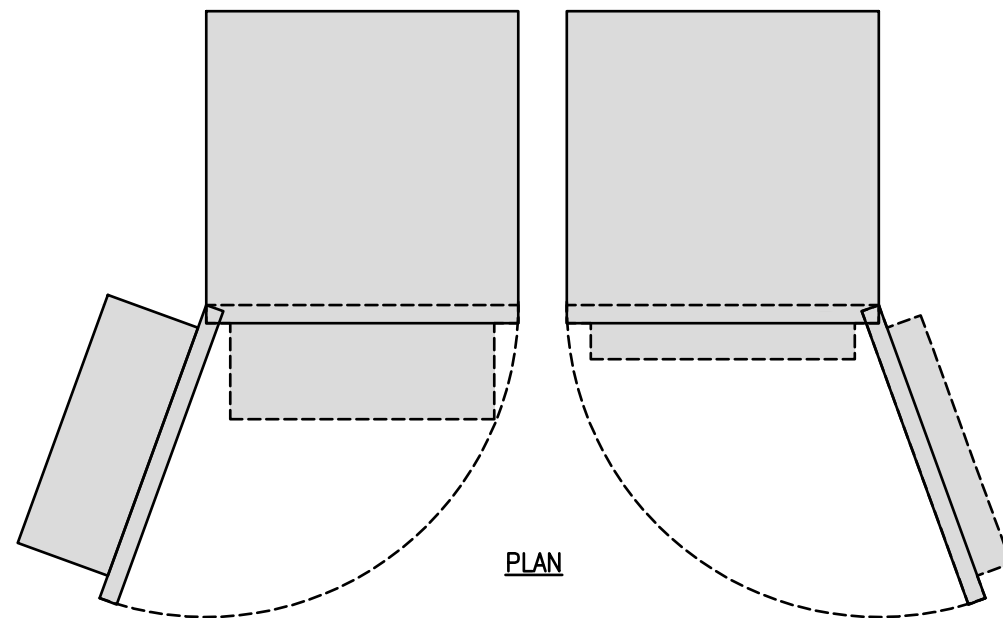
3 CANOPY ISOMETRIC
S-2 SCALE: N.T.S.



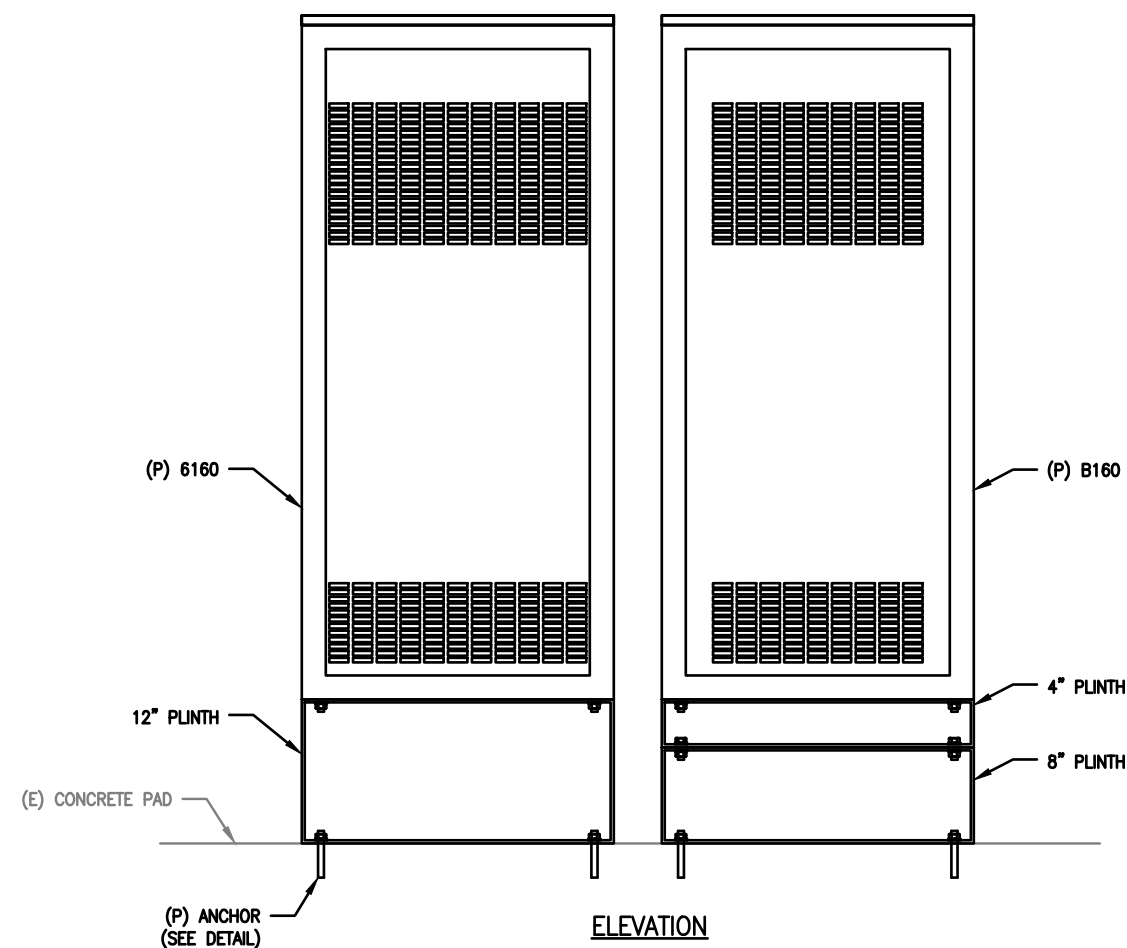
5 ANCHOR DETAIL
S-2 SCALE: N.T.S.



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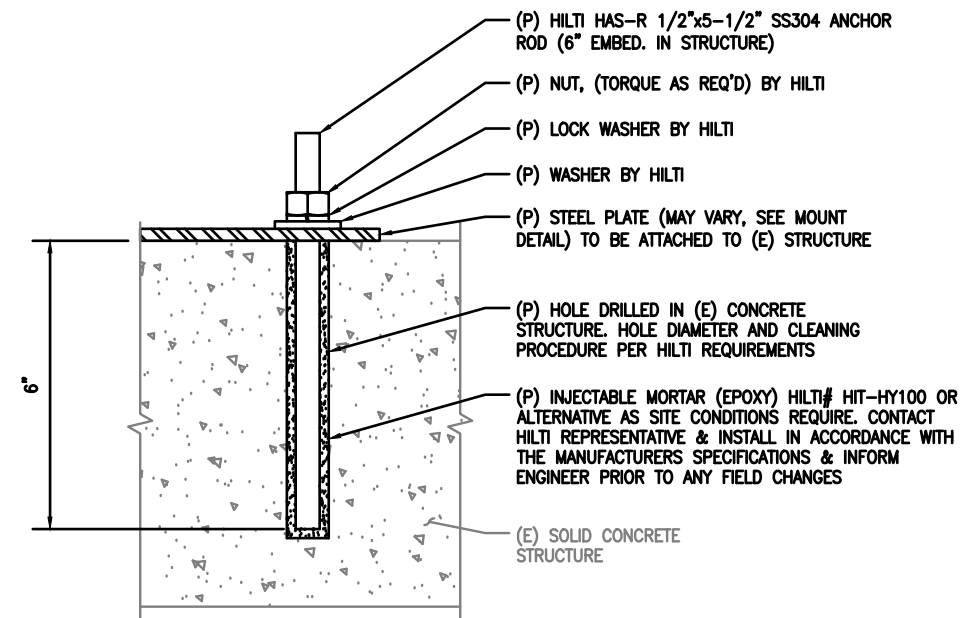


PLAN



ELEVATION

1
S-3 EQUIPMENT CABINET MOUNTING DETAILS
SCALE: 3/4" = 1'-0"



2
S-3 ANCHOR DETAIL
SCALE: N.T.S.



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STEEL CONSTRUCTION NOTES:

- 1. FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, "MANUAL OF STEEL CONSTRUCTION, ASD (LATEST EDITION).
- 2. ALL STEEL DETAILS AND CONNECTIONS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS", LATEST EDITION
- 3. STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE NOTED ON THE DRAWINGS:
 - ALL ROLLED SHAPES AND CHANNELS: ASTM A-572 OR A-992, MIN. YIELD STRENGTH OF 50 KSI
 - MISCELLANEOUS ANGLES: ASTM A-36, MIN YIELD STRENGTH OF 36 KSI
 - HOLLOW STRUCTURAL STEEL SECTIONS, (TUBES & PIPES): ASTM A500 GRADE B, MIN YIELD STRENGTH OF 42 KSI FOR PIPES AND 46 KSI FOR TUBES.
- 4. ALL BOLTS SHALL CONFORM TO ASTM A325 OR A490, NUTS SHALL CONFORM TO ASTM A563 AND WASHERS SHALL CONFORM TO ASTM A-F436.
- 5. ALL ANCHOR BOLTS/RODS SHALL CONFORM TO ASTM F-1554 GRADE 36 WITH WELD ABILITY SUPPLEMENT S1, UNLESS OTHERWISE NOTED. SUBMIT GRADE CERTIFICATIONS FOR RECORD. STEEL SUPPLIER SHALL SUPPLY RIGID STEEL TEMPLATES FOR ANCHOR ROD INSTALLATION.
- 6. ALL SHOP OR FIELD BOLTED CONNECTIONS, SHALL BE BOLTED CONNECTIONS USING 1/2 INCH DIAMETER A325 N BOLTS IN STANDARD HOLES, UNLESS SPECIFICALLY NOTED OTHERWISE.
- 7. OVERSIZED OR SLOTTED HOLES SHALL NOT BE USED FOR ANY CONNECTIONS UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS OR APPROVED IN WRITING BY THE ENGINEER.
- 8. ALL BUTT AND FULL PENETRATION WELDS SHALL BE MADE USING RUN OFF TABS WHICH SHALL BE REMOVED AND GROUND SMOOTH AFTER WELD IS COMPLETED.
- 9. ALL WELD BACK UP BARS SHALL BE REMOVED AND GROUND SMOOTH AFTER WELD IS COMPLETED, UNLESS NOTED OTHERWISE.
- 10. ALL WELDS INDICATED SHALL MEET THE MINIMUM WELD SIZE SPECIFIED BY THE AISC MANUAL OF STEEL DESIGN. (SINGLE PASS AS REQUIRED)
- 11. ALL WELDS SHALL BE PERFORMED BY QUALIFIED WELDERS IN ACCORDANCE WITH A.W.S. SPECIFICATIONS, LATEST EDITIONS. ALL WELDING ELECTRODES SHALL CONFORM TO A.W.S. A5.1 GRADE E-70. BARE ELECTRODES AND GRANULAR FLUX SHALL CONFORM TO A.W.S. A5.17, F70 A.W.S. FLUX CLASSIFICATION.
- 12. ALTERNATE CONNECTIONS WILL BE ACCEPTED ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER. HOWEVER, THE ENGINEER SHALL BE THE SOLE JUDGE OF THE ACCEPTABILITY AND THE CONTRACTOR'S BID SHALL ANTICIPATE THE USE OF THOSE SPECIFIC DETAILS SHOWN ON THE DRAWINGS. IN ANY EVENT THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF SUCH ALTERNATE DETAILS WHICH THEY PROPOSE.
- 13. SHOP AND FIELD CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWINGS SHALL BE BOLTED OR WELDED.
- 14. WHEN NOT SPECIFICALLY DETAILED ELSEWHERE ON THE DRAWINGS, ALL BEAM TO BEAM AND BEAM TO COLUMN CONNECTIONS SHALL BE DETAILED AS SHOWN IN THE TYPICAL BEAM CONNECTION DETAILS.
- 15. ALL BEAM AND GIRDERS SHALL BE CONNECTED FOR 115% OF THE REACTION DENOTED BY THE SYMBOL V ON THE PLAN. PROVIDE A MINIMUM 2 BOLT CONNECTION. IF NO REACTION IS GIVEN PROVIDE CONNECTION FOLLOWING NOTE 16.
- 16. ALL BEAM AND GIRDER CONNECTIONS SHALL BE AT LEAST CAPABLE OF DEVELOPING THE UNIFORMLY DISTRIBUTED LOAD CAPACITY OF THE MEMBER USING THE REACTION FROM THE ALLOWABLE LOAD OF BEAM AS TABULATED IN THE AISC MANUAL OF STEEL CONSTRUCTION LATEST EDITION UNLESS NOTED OTHERWISE. FOR COMPOSITE BEAMS MULTIPLY THE REACTION BY THE RATIO S_{tr}/S WHERE S_{tr} = SECTION MODULUS OF THE TRANSFORMED COMPOSITE CROSS SECTION WITH RESPECT TO THE BOTTOM FLANGE, AND S = SECTION MODULUS OF THE STRUCTURAL STEEL ALONE.
- 17. ALL HOLES AND CUTS SHALL BE SHOWN ON THE SHOP DRAWINGS AND MADE IN THE SHOP. CUTS OR BURNING OF HOLES IN STRUCTURAL STEEL MEMBERS IN THE FIELD WILL NOT BE PERMITTED.
- 18. PROVIDE ANY TEMPORARY BRACING OR GUYS TO PROVIDE LATERAL SUPPORT OF THE STRUCTURES AND INDIVIDUAL ELEMENTS UNTIL PERMANENT FRAME IS COMPLETELY INSTALLED.
- 19. ALL STRUCTURAL STEEL EXPOSED TO WEATHER SHALL BE GALVANIZED.
- 20. ALL TUBE & PIPE SECTIONS EXPOSED TO WEATHER SHALL HAVE OPEN ENDS CAPPED WITH 1/4" PLATE.
- 21. ALL STRUCTURAL STEEL TO RECEIVE SPRAY APPLIED FIRE PROTECTION SHALL BE LEFT UNCOATED.
- 22. FOR EXPOSED INTERIOR STRUCTURAL STEEL, REFER TO DRAWINGS AND SPECIFICATIONS FOR SURFACE PREPARATION AND FINISH REQUIREMENTS.
- 23. STEEL FABRICATOR SHALL COORDINATE ALL HOLE LOCATIONS FOR SIMPSON TIE DOWN ANCHORS. ALL HOLES SHALL BE SHOP DRILLED THROUGH BEAM FLANGES.

STRUCTURAL NOTES:

- 1. ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) AND ALL APPLICABLE BUILDING CODES.
- 2. STRUCTURAL STEEL SHAPES SHALL BE ASTM A36 STEEL.
- 3. ALL BOLTS SHALL BE ASTM GRADE A325, HOT-DIP GALVANIZED PER ASTM D153. ALL BOLTS SHALL BE 1/2" DIAMETER UNLESS OTHERWISE NOTED.
- 4. ALL BOLTS SHALL HAVE GALVANIZED LOCK WASHER OR PAL NUT
- 5. TIGHTEN BOLTS USING THE "TURN OF THE NUT" METHOD AS SPECIFIED BY AISC.
- 6. HOT-DIP GALVANIZE ANGLES PER ASTM D123 AFTER FABRICATION.
- 7. APPLY A MINIMUM OF TWO COATS OF COLD GALVANIZING TO ANY FIELD CUT OR DRILLED SURFACES.
- 8. STRUCTURAL CONNECTION BOLTS SHALL BE HIGH STRENGTH BOLTS (BEARING TYPE) AND CONFORM TO ASTM A325 "HIGH STRENGTH BOLTS FOR STRUCTURAL JOINTS, INCLUDING SUITABLE NUTS AND PLAIN HARDENED WASHERS".
- 9. ALL BOLTS ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZE IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT-DIP) ON IRON AND STEEL HARDWARE", UNLESS OTHERWISE NOTED.
- 10. STEEL PIPE SHALL CONFORM TO ASTM A500 "COLD-FORMED WELDED & SEAMLESS CARBON STEEL STRUCTURAL TUBING", GRADE A, OR ASTM A53 PIPE STEEL BLACK AND HOT-DIPPED ZINC-COATED WELDED AND SEAMLESS TYPE E OR S, GRADE B. PIPE SIZES INDICATED ARE NOMINAL. ACTUAL OUTSIDE DIAMETER IS LARGER.
- 11. FIELD WELDS, DRILL HOLES, SAW CUTS AND ALL DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED WITH AN ORGANIC ZINC REPAIR PAINT COMPLYING WITH REQUIREMENTS OF ASTM A780. GALVANIZING REPAIR PAINT SHALL HAVE 86 PERCENT ZINC BY WEIGHT, ZIRP BY DUNCAN GALVANIZING, GALVA BRIGHT PREMIUM BY CROWN OR EQUAL. THICKNESS OF APPLIED GALVANIZING REPAIR PAINT SHALL BE NOT LESS THAN 4 COATS (ALLOW TIME TO DRY BETWEEN COATS) WITH A RESULTING COATING THICKNESS REQUIRED BY ASTM A123 OR A153 AS APPLICABLE.
- 12. CONTRACTOR SHALL COMPLY WITH AWS CODE FOR PROCEDURES, APPEARANCE AND QUALITY OF WELDS, AND FOR METHODS USED IN CORRECTING WELDING. ALL WELDERS AND WELDING PROCESSES SHALL BE QUALIFIED IN ACCORDANCE WITH AWS "STANDARD QUALIFICATION PROCEDURES". ALL WEDDING SHALL BE DONE USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND D1.1. WHERE FILL WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION", 9TH EDITION.





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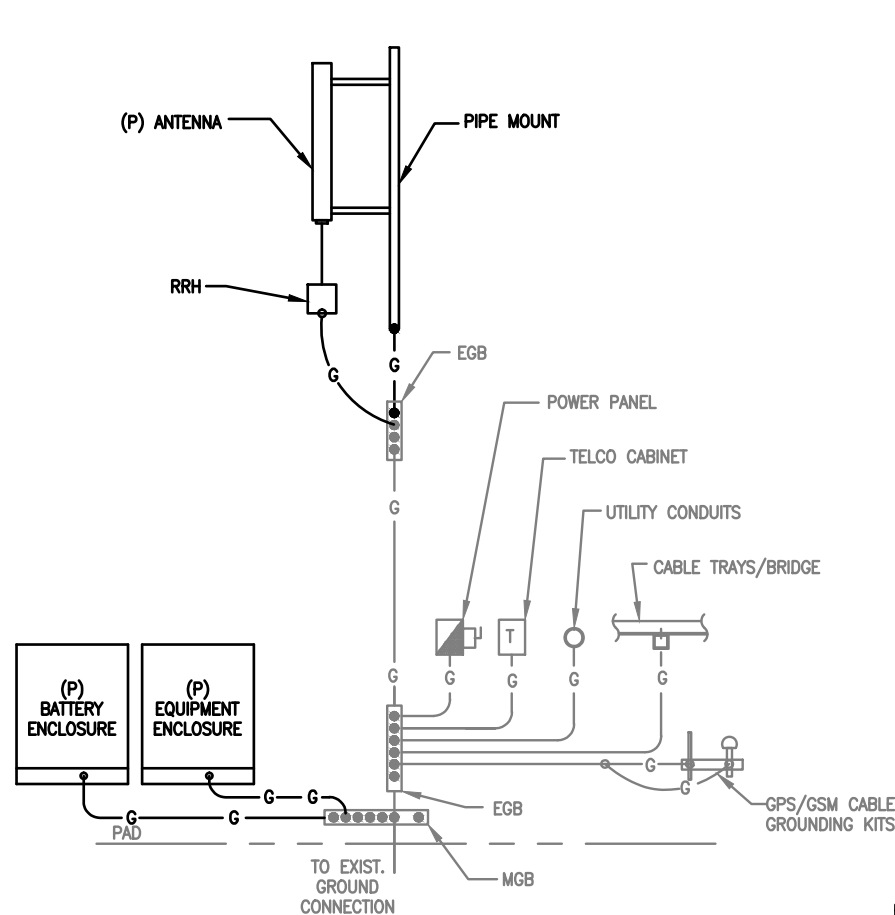
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1298 MACHIA ROAD
SHELDON, VT 05482
FRANKLIN COUNTY

T-MOBILE NORTHEAST LLC
15 COMMERCE WAY, SUITE B
NORTON, MA 02766
OFFICE: (508) 286-2700
FAX: (508) 286-2893

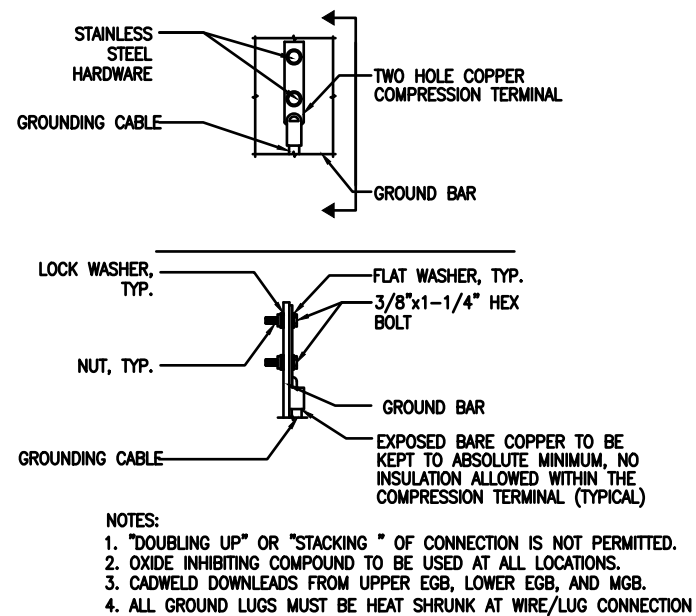
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STRUCTURAL NOTES

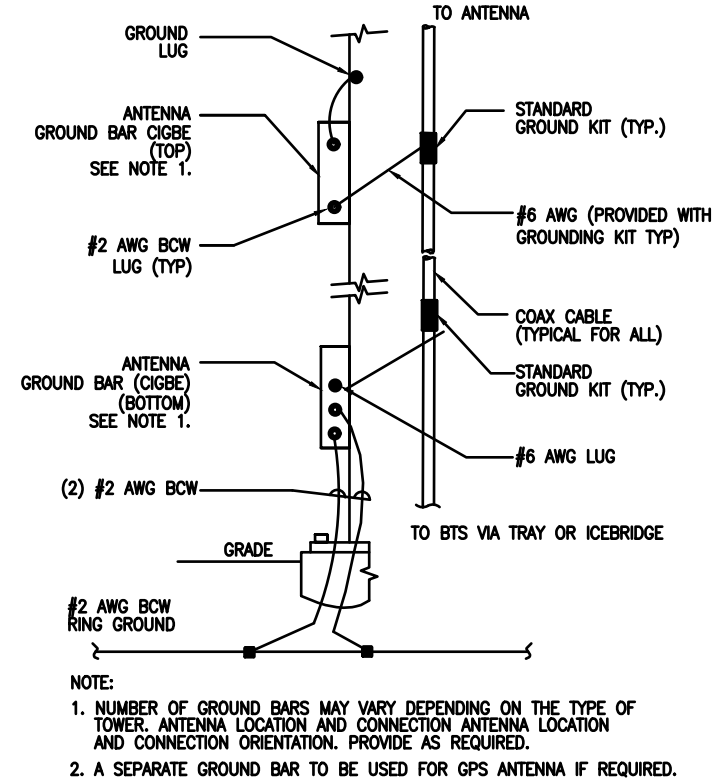
SHEET NO. S-4



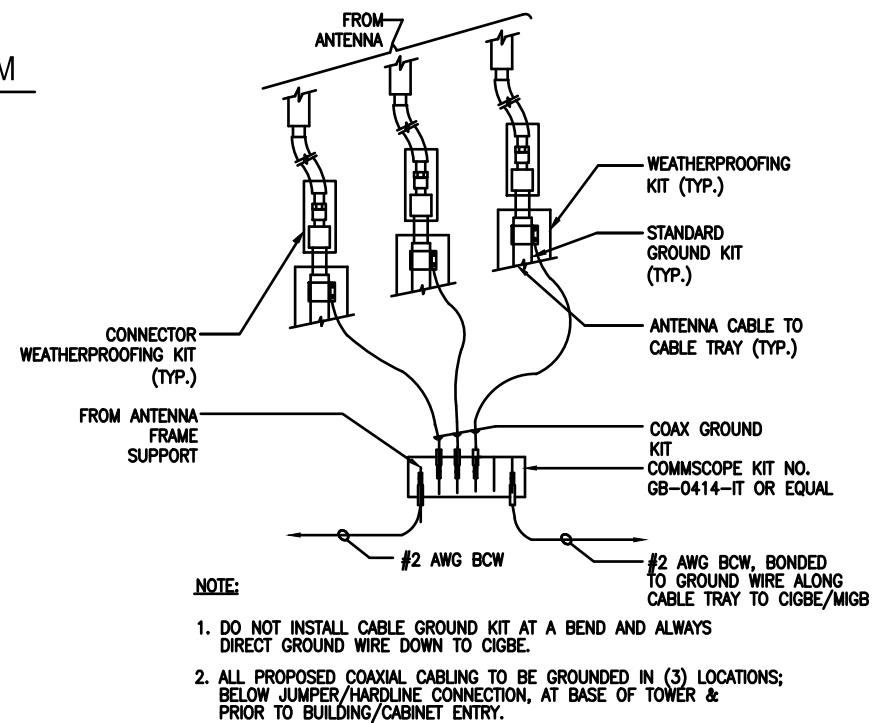
1 TYP. GROUNDING RISER DIAGRAM
G-1 SCALE: N.T.S.



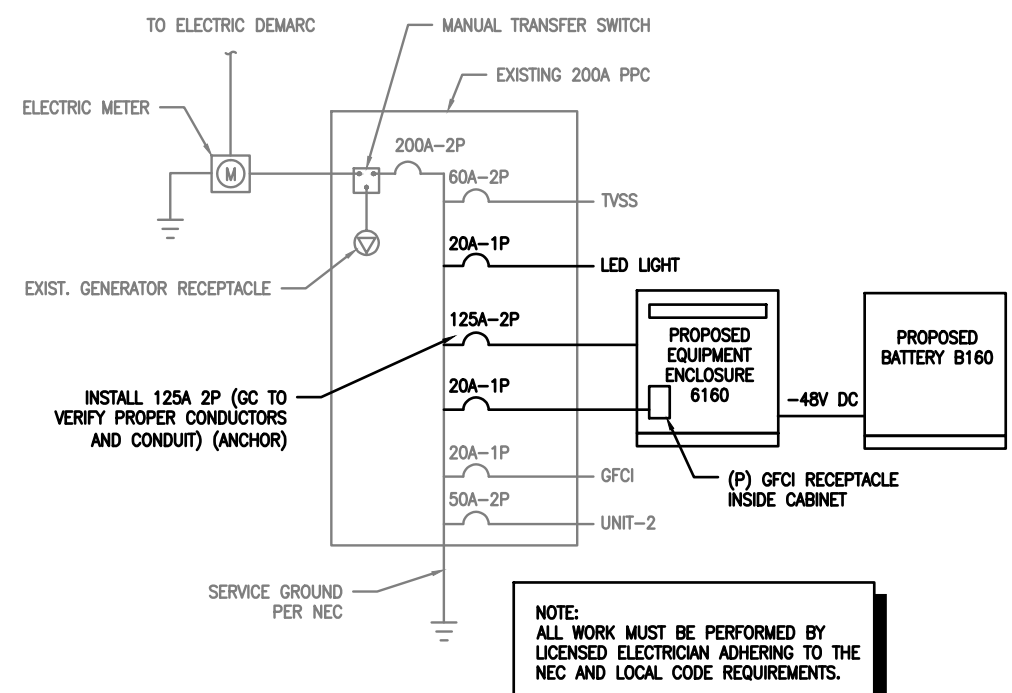
2 TYP. GROUND BAR CONNECTION DETAIL
G-1 SCALE: N.T.S.



3 ANTENNA CABLE GROUNDING
G-1 SCALE: N.T.S.



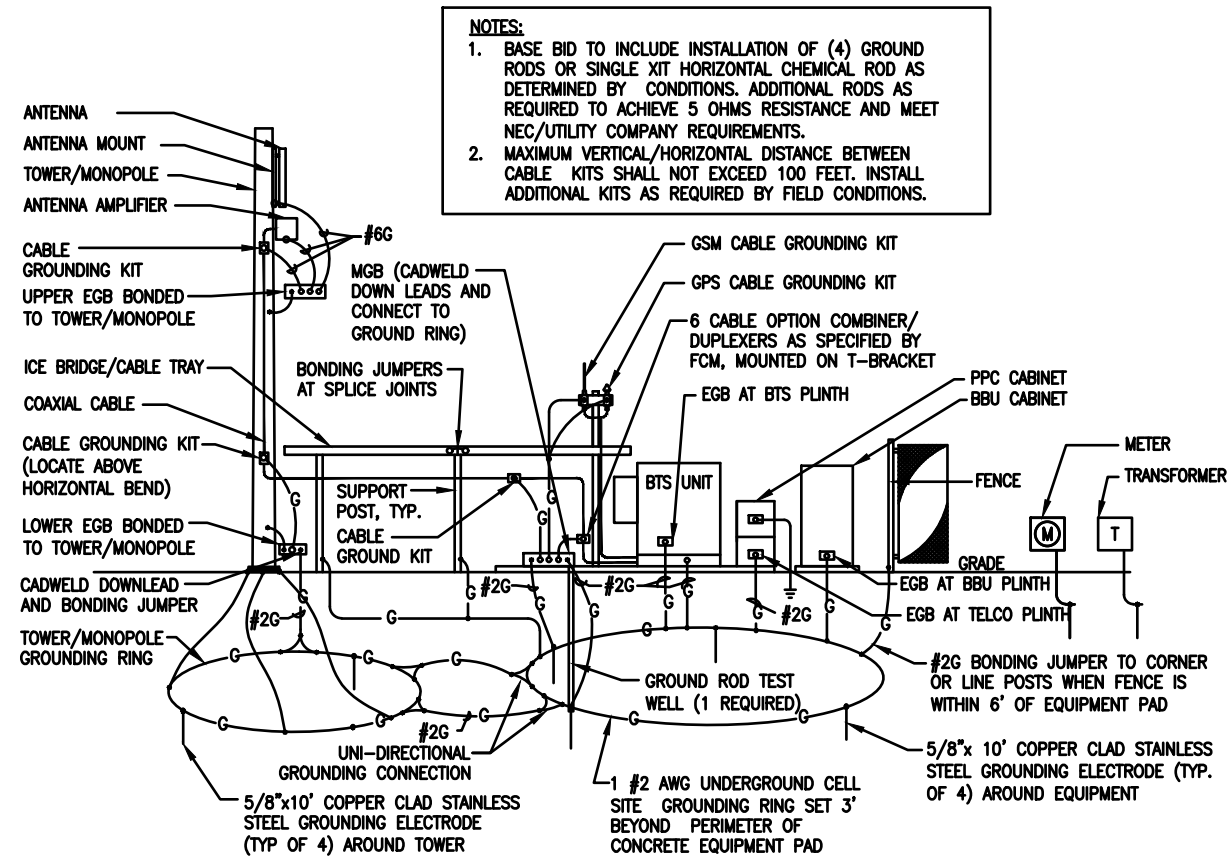
4 GROUND WIRE TO GROUND BAR CONNECTION DETAIL
G-1 SCALE: N.T.S.



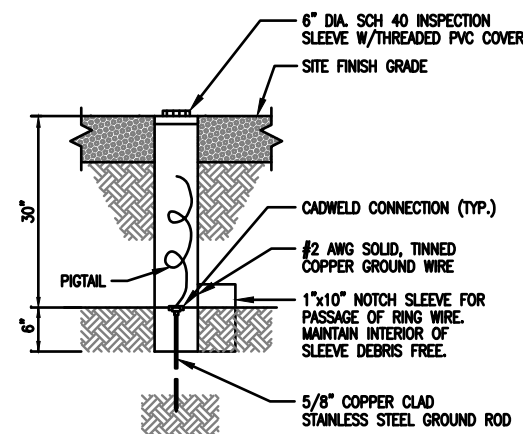
5 ONE LINE POWER DIAGRAM
G-1 SCALE: N.T.S.



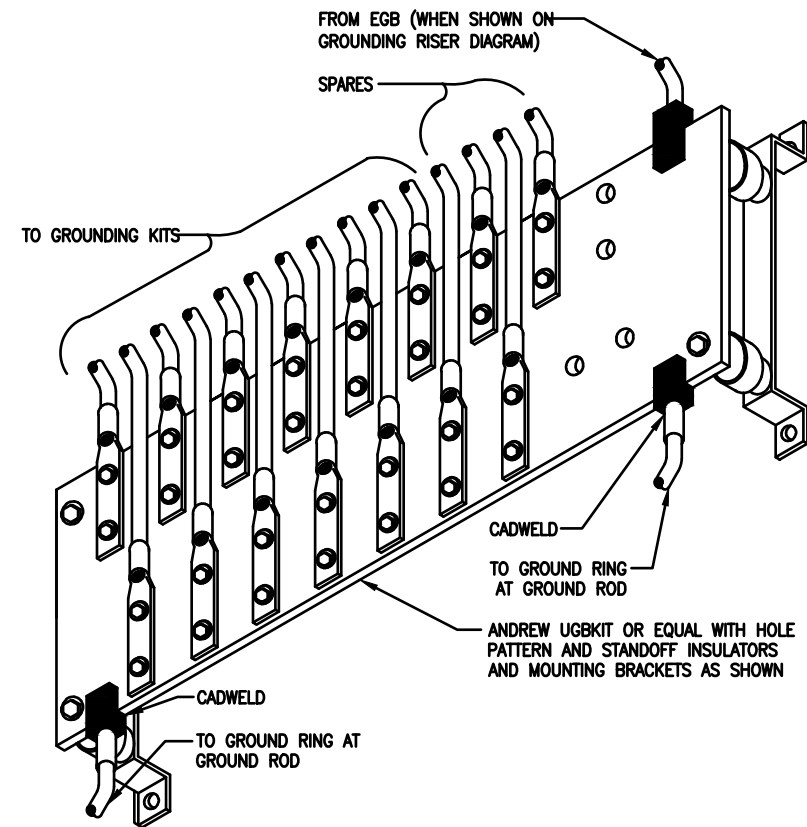
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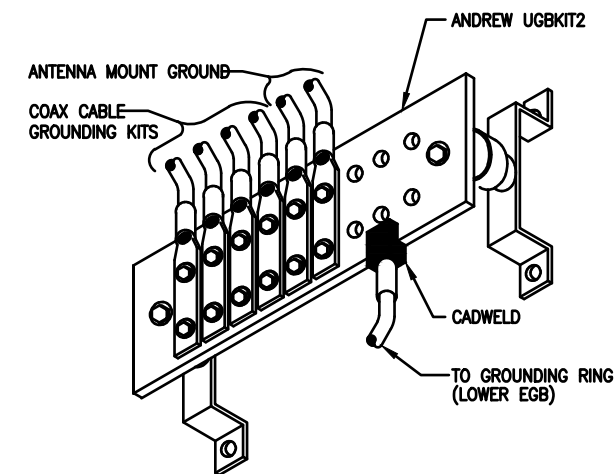
1 TYP. GROUNDING RISER DIAGRAM
G-2 SCALE: N.T.S.



3 GROUND ROD TEST WELL DETAIL
G-2 SCALE: N.T.S.



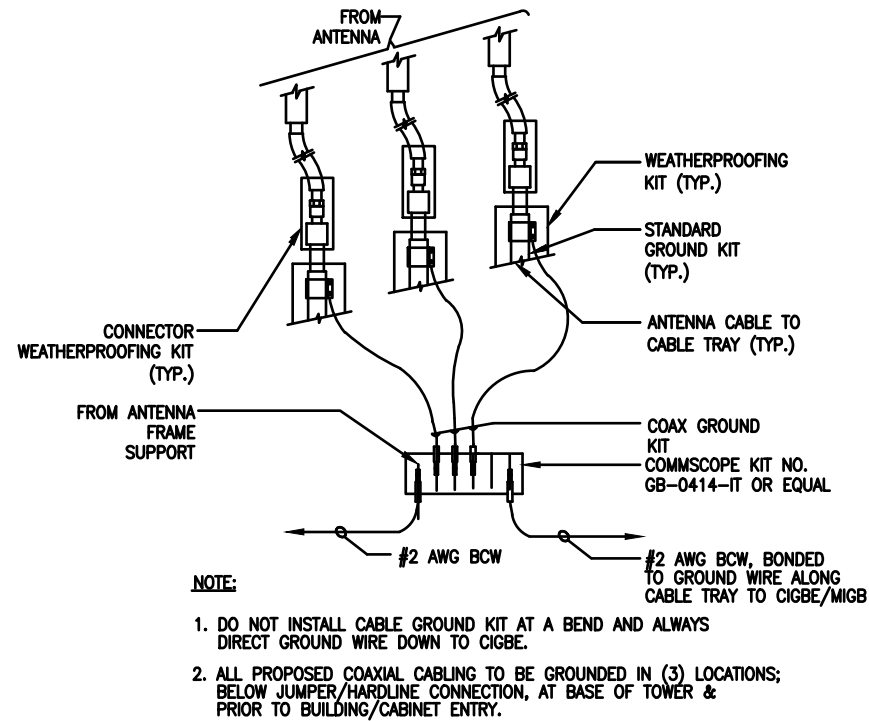
2 MASTER GROUND BAR (MGB)
G-2 SCALE: N.T.S.



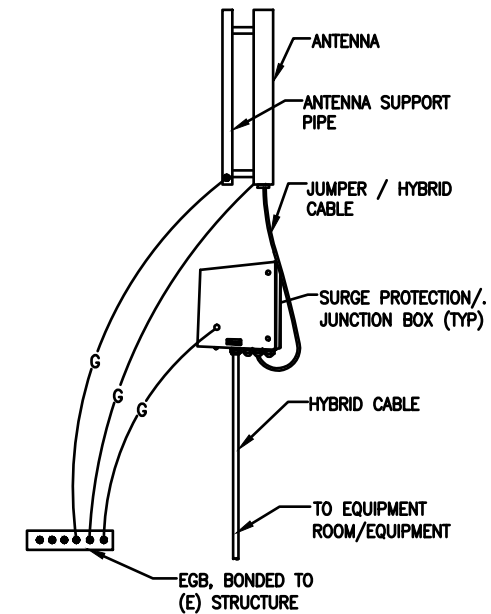
4 EQUIPMENT GROUND BAR (EGB)
G-2 SCALE: N.T.S.



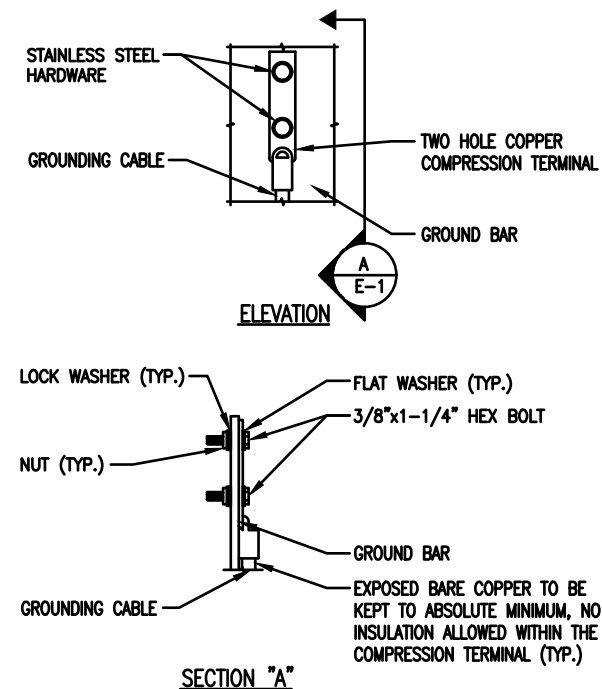
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1 GROUND WIRE TO GROUND BAR CONNECTION DETAIL
G-3 SCALE: N.T.S.

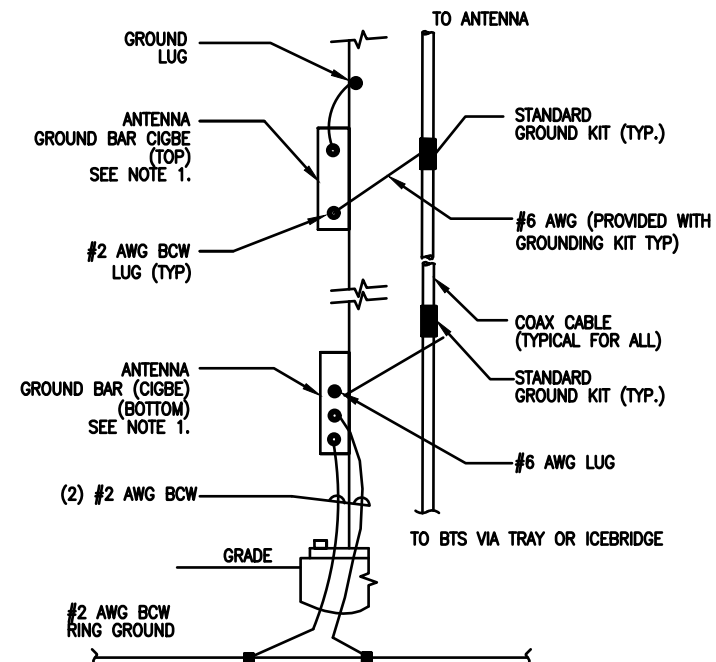


2 CABLE CONNECTION AND GROUNDING DETAIL
G-3 SCALE: N.T.S.



- NOTES:
1. "DOUBLING UP" OR "STACKING" OF CONNECTION IS NOT PERMITTED.
 2. OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.
 3. CADWELD DOWNLEADS FROM UPPER EGB, LOWER EGB, AND MGB.
 4. ALL GROUND LUGS MUST BE HEAT SHRUNK AT WIRE/LUG CONNECTION

3 TYP. GROUND BAR CONNECTION DETAIL
G-3 SCALE: N.T.S.

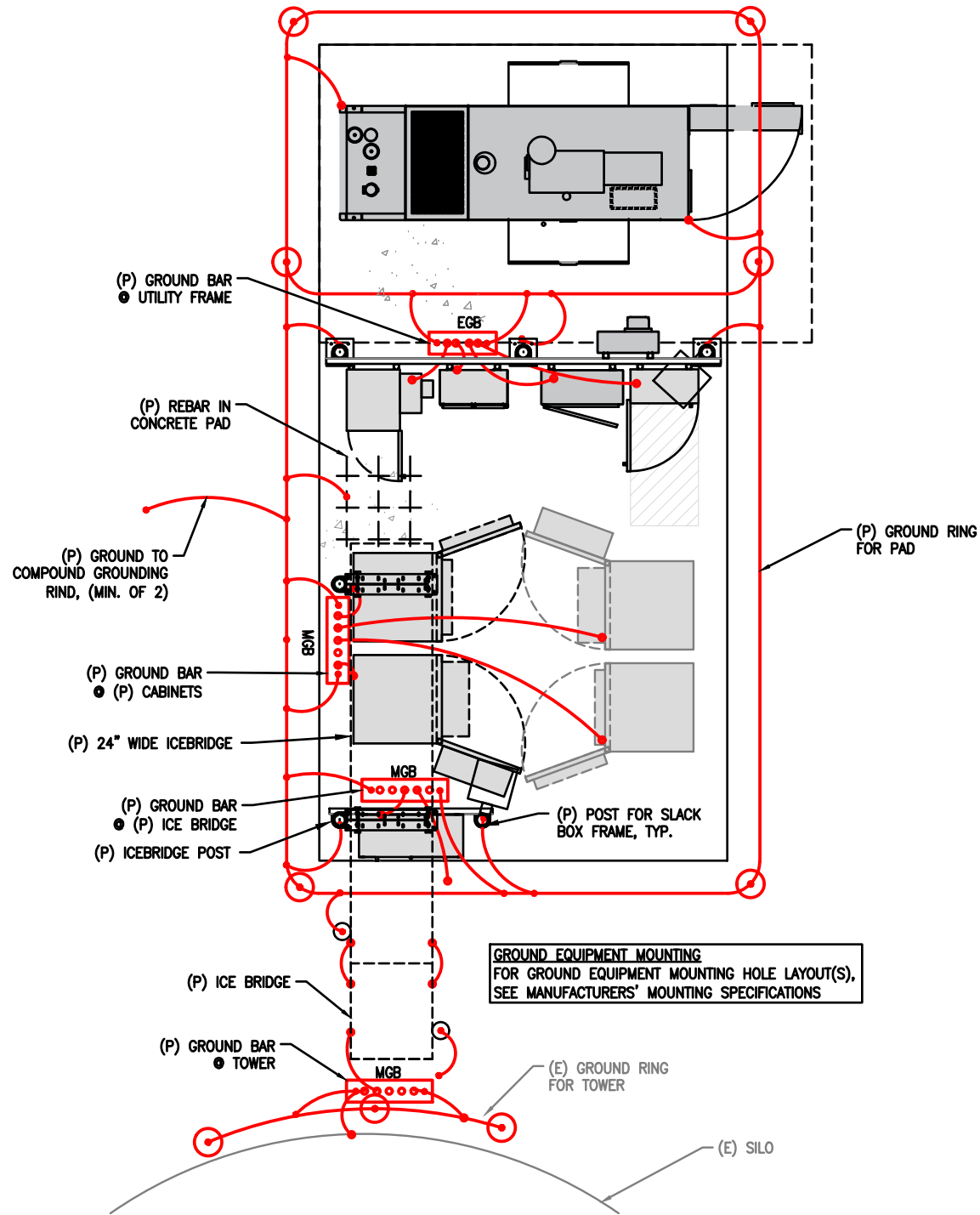


- NOTE:
1. NUMBER OF GROUND BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATION AND CONNECTION ANTENNA LOCATION AND CONNECTION ORIENTATION. PROVIDE AS REQUIRED.
 2. A SEPARATE GROUND BAR TO BE USED FOR GPS ANTENNA IF REQUIRED.

4 ANTENNA CABLE GROUNDING
G-3 SCALE: N.T.S.



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1 SCHEMATIC GROUNDING PLAN
G-4 SCALE: N.T.S.

ELECTRICAL LEGEND

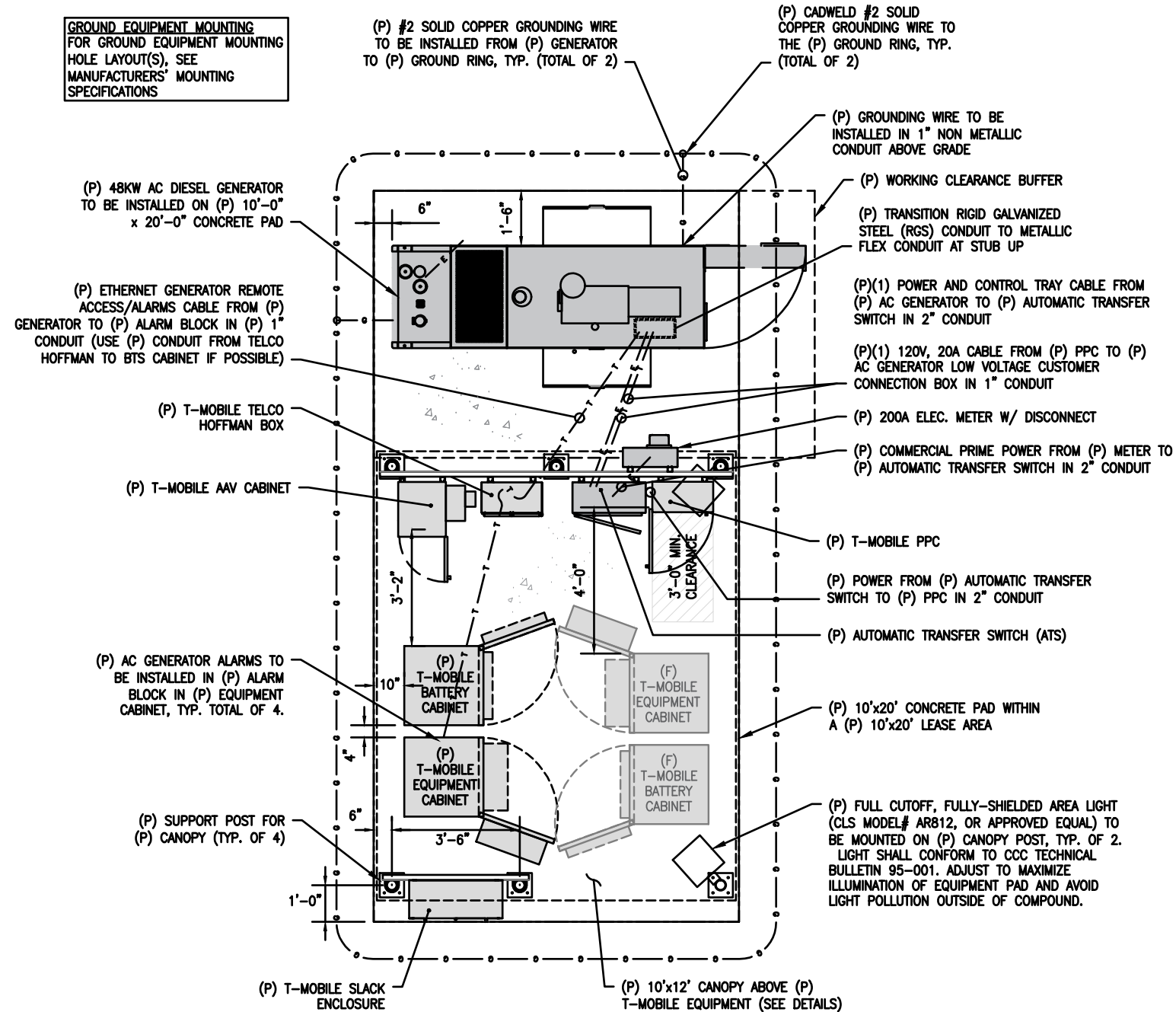
	NEW PANEL BOARD, SURFACE MOUNTED
	EXISTING PANEL BOARD, SURFACE MOUNTED
	DRY TYPE TRANSFORMER
	METER
	CIRCUIT BREAKER
	NON-FUSIBLE DISCONNECT SWITCH, MOUNTED 54" A.F.F.
	FUSIBLE DISCONNECT SWITCH, MOUNTED 54" A.F.F.
	TRANSIENT VOLTAGE SURGE SUPPRESSOR WITH BUILT-IN FUSES, SURFACE MOUNTED
	DUPLEX OUTLET, SURFACE MOUNTED, 20 AMPS, 125 VOLTS, SINGLE PHASE
	JUNCTION BOX, SURFACE MOUNTED 18" A.F.F.
	EXPOSED WIRING
	HOME RUNS, MINIMUM 2#10 + 1#10G IN 3/4" CONDUIT U.O.N.
A.F.F.	ABOVE FINISHED FLOOR
U.O.N.	UNLESS OTHERWISE NOTED
WP	WEATHERPROOF
GFI	GROUND FAULT INTERRUPTER
A	AMPERE
V	VOLT
KWH	KILOWATT - HOUR
C	CONDUIT
GRC	GALVANIZED RIGID CONDUIT
G	GROUND
	GROUND
MGB	MASTER GROUND BAR
	MECHANICAL CONNECTION
	CADWELD CONNECTION
EGB	EQUIPMENT GROUND BAR
	MECHANICAL CONNECTION
	CADWELD CONNECTION
G	GROUND COPPER WIRE, SIZE AS NOTED
	EXPOSED WIRING
	COAXIAL CABLE
	5/8"x6' COPPER CLAD STAINLESS STEEL GROUND ROD
	EXOTHERMIC (CADWELD) OR MECHANICAL (COMPRESSION TYPE) CONNECTION
	GENERATOR PLUG
	OMNI-DIRECTIONAL ELECTRONIC MARKER SYSTEM (EMS) BALL

ELECTRICAL AND GROUNDING NOTES

- ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.
- ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED PER SPECIFICATION REQUIREMENTS.
- THE ELECTRICAL WORK INCLUDES ALL LABOR AND MATERIAL DESCRIBED BY DRAWINGS AND SPECIFICATION INCLUDING INCIDENTAL WORK TO PROVIDE COMPLETE OPERATING AND APPROVED ELECTRICAL SYSTEM.
- GENERAL CONTRACTOR SHALL PAY FEES FOR PERMITS, AND IS RESPONSIBLE FOR OBTAINING SAID PERMITS AND COORDINATION OF INSPECTIONS.
- ELECTRICAL AND TELCO WIRING OUTSIDE A BUILDING AND EXPOSED TO WEATHER SHALL BE IN WATER TIGHT GALVANIZED RIGID STEEL CONDUITS OR SCHEDULE 80 PVC (AS PERMITTED BY CODE) AND WHERE REQUIRED IN LIQUID TIGHT FLEXIBLE METAL OR NONMETALLIC CONDUITS.
- BURIED CONDUIT SHALL BE SCHEDULE 40 PVC.
- ELECTRICAL WIRING SHALL BE COPPER WITH TYPE XHHW, THWN, OR THHN INSULATION.
- RUN ELECTRICAL CONDUIT OR CABLE BETWEEN ELECTRICAL UTILITY DEMARCATION POINT AND PROJECT OWNER CELL SITE GENERATOR PLUG AS INDICATED ON THIS DRAWING. PROVIDE FULL LENGTH PULL ROPE. COORDINATE INSTALLATION WITH UTILITY COMPANY.
- RUN TELCO CONDUIT OR CABLE BETWEEN TELEPHONE UTILITY DEMARCATION POINT AND PROJECT OWNER CELL SITE TELCO CABINET AND BTS CABINET AS INDICATED ON THIS DRAWING. PROVIDE FULL LENGTH PULL ROPE AND GREENLEE CONDUIT MEASURING TAPE IN EACH INSTALLED TELCO CONDUIT.
- WHERE CONDUIT BETWEEN BTS AND PROJECT OWNER CELL SITE GENERATOR PLUG AND BETWEEN BTS AND PROJECT OWNER CELL SITE TELCO SERVICE CABINET ARE UNDERGROUND USE PVC, SCHEDULE 40 CONDUIT. ABOVE THE GROUND PORTION OF THESE CONDUITS SHALL BE PVC CONDUIT.
- ALL EQUIPMENT LOCATED OUTSIDE SHALL HAVE NEMA 3R ENCLOSURE.
- GROUNDING SHALL COMPLY WITH NEC ART. 250. ADDITIONALLY, GROUNDING, BONDING AND LIGHTNING PROTECTION SHALL BE DONE IN ACCORDANCE WITH "T-MOBILE BTS SITE GROUNDING STANDARDS".
- GROUND COAXIAL CABLE SHIELDS MINIMUM AT BOTH ENDS USING MANUFACTURERS COAX CABLE GROUNDING KITS SUPPLIED BY PROJECT OWNER.
- USE #6 COPPER STRANDED WIRE WITH GREEN COLOR INSULATION FOR ABOVE GRADE GROUNDING (UNLESS OTHERWISE SPECIFIED) AND #2 SOLID TINNED BARE COPPER WIRE FOR BELOW GRADE GROUNDING AS INDICATED ON THE DRAWING.
- ALL GROUND CONNECTIONS TO BE BURNDY HYGROUND COMPRESSION TYPE CONNECTORS OR CADWELD EXOTHERMIC WELD. DO NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT WITH GALVANIZED STEEL.
- ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NEVER BE BENT AT RIGHT ANGLE. ALWAYS MAKE AT LEAST 12" RADIUS BENDS. #6 WIRE CAN BE BENT AT 6" RADIUS WHEN NECESSARY. BOND ANY METAL OBJECTS WITHIN 6 FEET OF PROJECT OWNER EQUIPMENT OR CABINET TO MASTER GROUND BAR OR GROUNDING RING.
- CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS.
- BOND ANTENNA MOUNTING BRACKETS, COAXIAL CABLE GROUND KITS, AND ALNA TO EGB PLACED NEAR THE ANTENNA LOCATION.
- APPLY OXIDE INHIBITING COMPOUND TO ALL COMPRESSION TYPE GROUND CONNECTIONS.
- CONTRACTOR SHALL PROVIDE AND INSTALL OMNI DIRECTIONAL ELECTRONIC MARKER SYSTEM (EMS) BALLS OVER EACH GROUND ROD AND BONDING POINT BETWEEN EXISTING TOWER/ (E) MONOPOLE GROUNDING RING AND EQUIPMENT GROUNDING RING.
- CONTRACTOR SHALL TEST COMPLETED GROUND SYSTEM AND RECORD RESULTS FOR PROJECT CLOSE-OUT DOCUMENTATION. 5 OHMS MAXIMUM RESISTANCE REQUIRED.
- CONTRACTOR SHALL CONDUCT ANTENNA, COAX, AND LNA RETURN-LOSS AND DISTANCE- TO-FAULT MEASUREMENTS (SWEEP TESTS) AND RECORD RESULTS FOR PROJECT CLOSE OUT.



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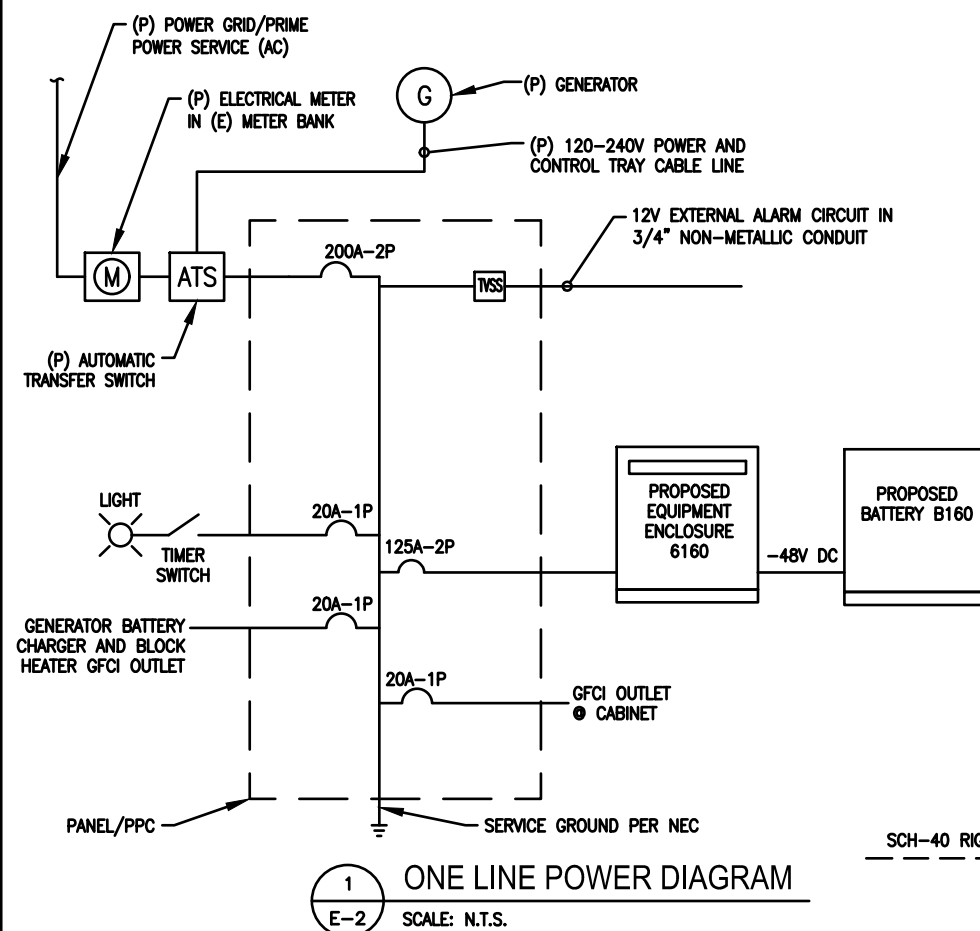


1 GENERATOR WIRING PLAN
E-1 SCALE: 1/4" = 1'-0"

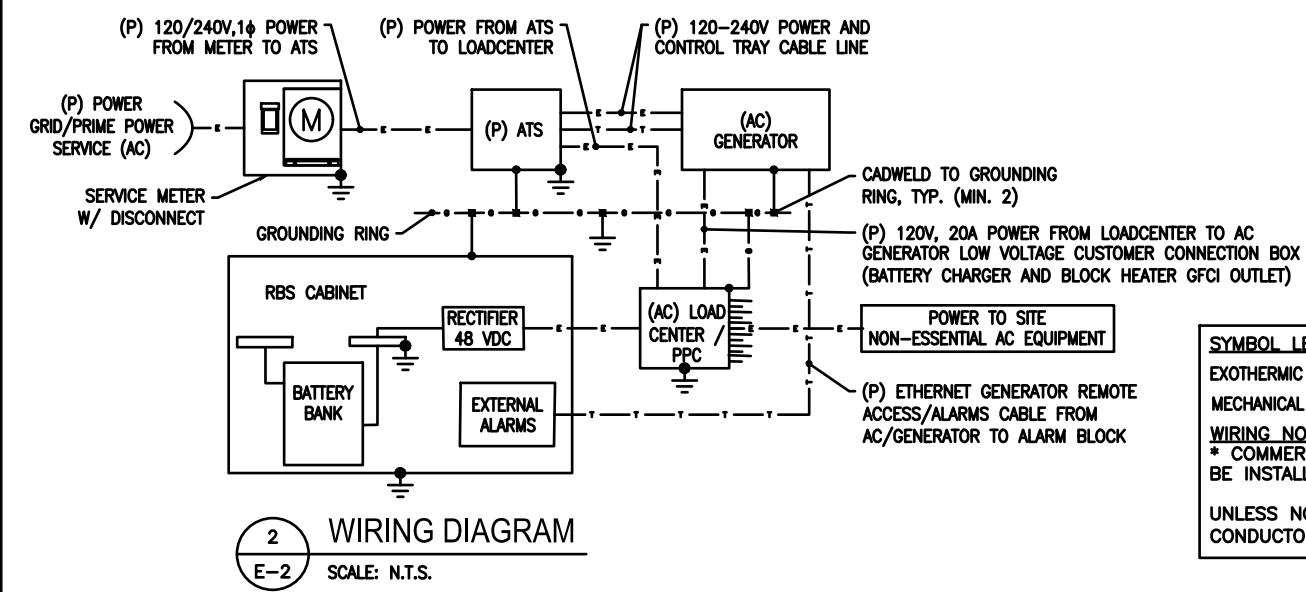
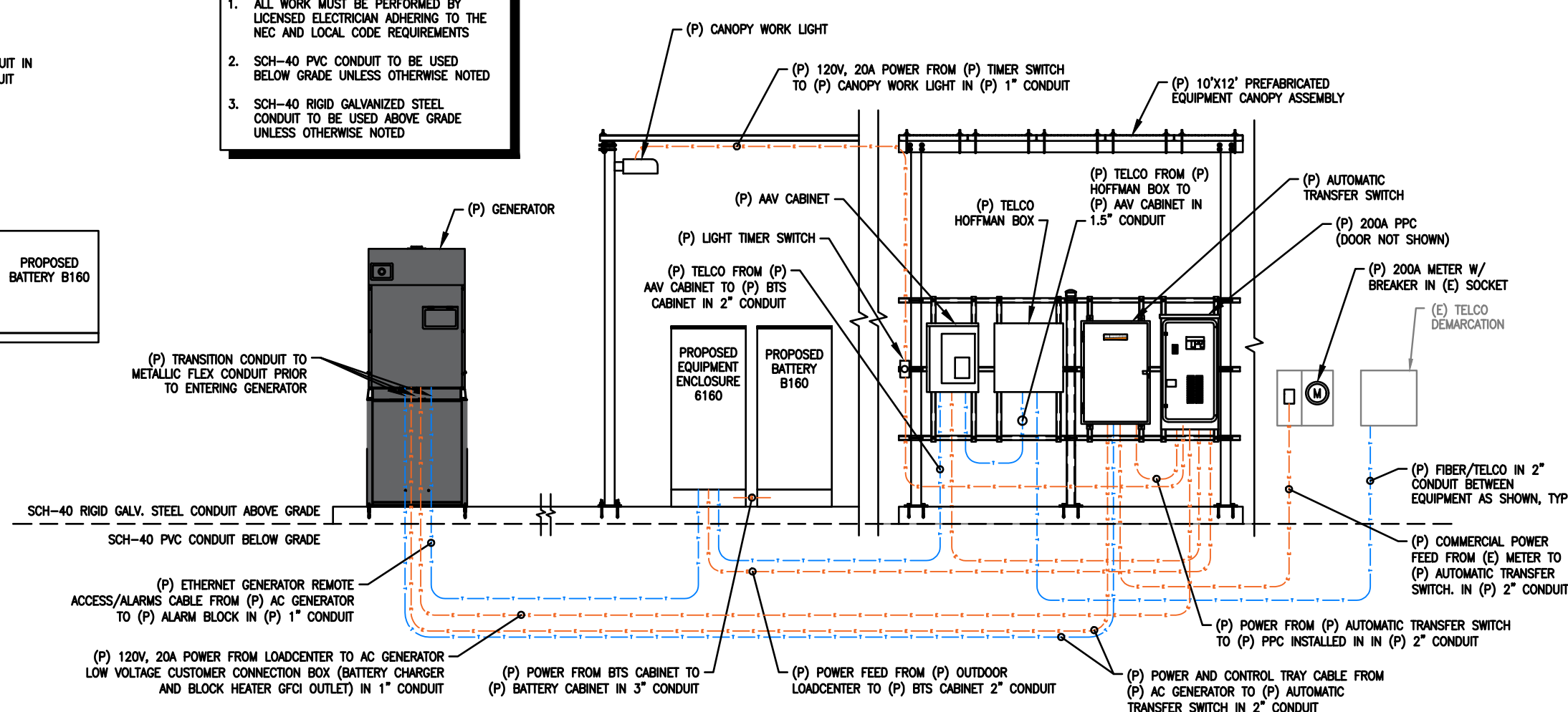
0 2'-0" 4'-0" 8'-0"



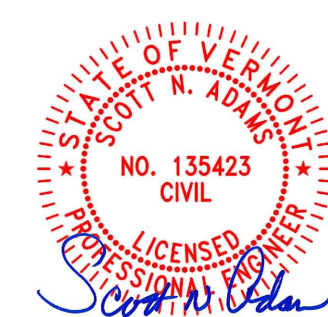
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- PLUMBING NOTES:**
1. ALL WORK MUST BE PERFORMED BY LICENSED ELECTRICIAN ADHERING TO THE NEC AND LOCAL CODE REQUIREMENTS
 2. SCH-40 PVC CONDUIT TO BE USED BELOW GRADE UNLESS OTHERWISE NOTED
 3. SCH-40 RIGID GALVANIZED STEEL CONDUIT TO BE USED ABOVE GRADE UNLESS OTHERWISE NOTED



- SYMBOL LEGEND**
- EXOTHERMIC CONNECTION ■
- MECHANICAL CONNECTION •
- WIRING NOTES:**
- * COMMERCIAL POWER ALARMING MOP TO BE INSTALLED AS REQUIRED
- UNLESS NOTED OTHERWISE, ALL BONDING CONDUCTORS ARE 2# SOLID TINNED BCW.



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